## STIC-Biotech/ChemLib

_		
Г	rom	

مئد د ۱۰۰۰ ۱۰۰

Hamud, Fozia

Sent:

Thursday, March 03, 2005 3:29 PM STIC-Biotech/ChemLib

To:

Subject:

sequence search for 09/617,720

Please search SEQ ID NOs: 1, 2, 3 of 09/617,720 against commercial and interference data bases. thanks.

Fozia Hamud **Patent Examiner** Remsen 4D64 Mail Box: Remsen 4C70 (571) 272-0884

STAFF USE ON
--------------

Searcher: \_\_\_\_\_\_ Searcher Phone: 2-Date Searcher Picked up: Date Completed: 3/14 Searcher Prep/Rev. Time: Online Time:\_

\*\*\*\*\*\*\*

Type of Search NA Sequence: #\_ AA Sequence :#\_ Structure: #\_ Bibliographic:\_ Litigation:\_ Patent Family:\_

Other:\_

\*\*\*\*\*\*\*

Vendors and cost where applicable STN:\_ DIALOG:\_ QUESTEL/ORBIT:\_ LEXIS/NEXIS: SEQUENCE SYSTEM:\_ WWW/Internet:\_

Other(Specify):\_\_

\*\*\*\*\*\*\*\*

This Page Blank (uspto)

..

		25	31.4	74.8	969	80
Copy	Gencore version 5.1.6 Copyright (c) 1993 - 2005 Compugen Ltd.	26 C 27	31.4	74.8	733	80 4
		o 5	31.4	74.8	1163	4.0
OM nucleic - nucleic	search, using sw model	7 m	30.8	73.8	1 8 4	 D V
		31	30.8	73.3	303	
Run on: March	13, 2005, 11:56:15;	c 32	30.8	73.3		-
	(without alignments)	33	30.8	73.3	346	ÿ
	11636.250 Million cell updates/sec	C 34	30.8	73.3		ω.
Title: US-09.	9-617-7-308-3	32	30.8	73.3		4,
t score: 42		37	30.0	3.5	40,4	٥ ٥
Sequence: 1 aagg	l aaggaaggaggagaagggagagtgaaggaaggaa	38	30.8	73.3		
		39	30.8	73.3		8
Scoring table: IDENT	IDENTITY_NUC	40	30.8	73.3		- 80
Gapop	10.0 , Gapext 1.0		30.8	73.3		80
0000		c 42	30.8	73.3		6
searched: 342393	544 segs, 19032134700 residues	4	30.8	73.3		- 60
		44	30.8	73.3		ω
local number of nits	BariBiying chosen parameters: 68479088	c 45	30.8	73.3	1229	о О
Minimum DB seq length: 0 Maximum DB seq length: 200000000	: 0					
Post-processing: Minim	.mum Match 0%					
Maxin	mum Match 100%	RESULT				
Listing	ing first 45 summaries	BI090567				
Database : EST:	ž.	LOCUS		BI090567 602855674F1 NIH MGC 10	NIH	5
	b_est1:*			mRNA sequence.	ce.	ı
2.5.	gb_est2:* ab_htc:*	ACCESSION		BI090567	20000171	0
	b_est3:*	KEYWORDS	Ø	1./0006	C # T : T D	
	D esta: *	SOURCE		Homo sapiens (human)	s (huma	G G
	D est.6.*	ORGANISM		Homo sapiens Fukaryota: Metaroa:	S Motoro	: :
	gb_g881:*		Mam	Mammalia, Eutheria;	utheria	
1g:6	b_gss2:*	REFERENCE		1 (bases 1 to 858)	1 to 858)	

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

ö

0; Gaps

Query Match 100.0%; Score 42; DB 4; Length 858; Best Local Similarity 100.0%; Pred. No. 0.046; Matches 42; Conservative 0; Mismatches 0; Indels

ORIGIN

1 AAGGAAGGAGGAAGGAAGGAGTGAAGGAAGGAGTGAAA 42

ò

AZ319198 1M0038M08 AZ74464 REC1-24-1 BI251681 602994176 BI664455 603200031 AQ745575 HS 2272-A CB606703 AMGNNUC:Y H32873 EST108382 R AA735512 00321909.8 C06764 C06764 RRC BZ263903 CH230-420 BG667137 DRAA04603 CB740130 AMGNNUC:Y BF522708 UI-R-G0-U AZ712287 RPCI-24-1 BH256925 CH230-242 BZ7712287 RPCI-24-1 BH256925 CH230-242 BZ7712287 RPCI-24-1 BH256925 CH230-242 BZ7712287 RPCI-24-1 BH256925 CH230-377 CC247236 CH261-136	ALIGNMENTS B1090567 B	Contact: Robert Strausberg, Ph.D.  Sontact: Robert Strausberg, Ph.D.  Salls 1: gapbs -remail.nih.gov  Sisue Procurement: ATCC  CDNA Library Preparation: Life Technologies, Inc.  CDNA Library Arrayed by: Incyte Genomics, Inc.  DNA Sequencing by: Incyte Genomics, Inc.  Clone distribution: MGC clone distribution information can be distribution: MGC clone distribution information can be cloud through the I.M.A.G.E. Consortium/LLNL at:  Clone distribution: MGC clone distribution information can be distribution: MGC clone distribution information can be cloud through the I.M.A.G.E. Column: 20  Incation/Qualifiers  Incation/Qualifiers  Incation/Qualifiers  Incation-Sequence stop: 670.  Incation
AZ319198 B124644 B1254664 B1664455 C066465 C06764 B2263903 B2263903 B2263903 B7252708 B752508 AZ712287 BH256925 BH256925 BH256925 BH26925	ALIGNMENTS 858 bp 10 Homo sapien 897 Chordata; Cran Chordata; Cara	ict: Robert Strausberg, Ph.D. i: capbs.ramail.nih.gov i: capbs.ramail.nih.gov library Arrayed by: Incyte Sequencing by: Incyte Sequencing by: Incyte Genomi is distribution: MGC clone di I through the I.M.A.G.E. Cons I through the I.M.A.G.E. Cons i: LiAMI1023 row: c column: quality sequence stop: 670. Location/Qualifiers I. 858   Organism="Homo sapiens"   Anoltype="mRMA"     Abs.ref="taxon:9606"     Abs.ref="taxon:9606
88448971488497188866	10 (10) (10) (10) (10) (10) (10) (10) (1	The second secon
696 7933 1163 1163 1854 1854 424 424 421 421 421 421 421 421 421 42	ALIGO 1990 1990 1990 1990 1990 1990 1990 199	Contact: Robert Straus Email: Gapbs remail.n Email: Gapbs remail.n CDNA Library Arrayed DNA Sequencing by: Clone distribution: M found through the I.M. http://image.llnl.gov location/Qual I. 858 /oranism='Ho /organism='Ho /organism='Ho /organism='Ho /organism='Ho /organism='Ho /clone='Norgan: Site 2: Sall; Average inser Technologies.
44444444444444444444444444444444444444	BI090567 602855674F1 NI 602855674F1 NI BI090567 BI090567.1 GI EST. Homo sapiens ( NIH-MGC http:/	Contact: Robert Email: cgapbs=re Email: cgapbs=re CDNA Library Pr CDNA Library Ar DNA Sequencing Clone distribut Clone distrib
4.4.4.1.00000000000000000000000	BI090 60285 BI090 BI090 BSI090 BSI090 BSI090 BSI090 Homo Homo Homo Homo Homo Homo Homo Hom	Contact Email: Email: CDN I CDN E Clone & Clone thigh qu. High qu.
000 0 0 0 0 000 0	RESULT 1 B1090567 LOCUS DEFINITION VERSION VERYWORDS SOURCE ORGANISM REFERENCE AUTHORS TILLE JOURNAL	COMMENT FEATURES SOURCE GORIGIN

AL545100

JERSION.

COMMENT

RESULT 2

g

```
Direct Submission
Submitted (20-JUL-2004) Genoscope - Centre National de Sequencage :
Bp 191 91006 BVRV cedex - FRANCE (E-mail : seqref@genoscope.cns.fr
Web : www.genoscope.cns.fr)
1st strand cDNA was primed with a NotI-oligo(dT) primer. Five prime
end enriched, double-strand cDNA was digested with Not I and cloned
into the Not I and EcoR V sites of the pCMVSPORT 6 vector. Library
was normalized. Library was constructed by Life Technologies, a
division of Invitogen.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      EST 20-MAY-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /note="Vector: pSPORT1; Site 1: Not1; Site_2: Sal1; oligo dt priming from poly A+ RNA, directionally cloned"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 BG787987
SEAUMC007944 Sea urchin primary mesenchyme cell cDNA library
Strongylocentrotus purpuratus cDNA clone PM990802-04-0459 5', mRNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (bases 1 to 818)
Zhu,X., Mahairas,G., Illies,M.R., Cameron,R.A., Davidson,E.H. and
Ettensohn,C.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A large scale analysis of mRNAs expressed by primary mesenchyme
http://fulllength.invitrogen.com/ InVitroGen Corporation 1600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               'clone_lib="Sea urchin primary mesenchyme cell cDNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Strongylocentrotus purpuratus
Eukaryota; Metazoa; Echinodermata; Eleutherozoa; Echinozoa;
Echinoidea; Euechinoidea; Echinacea; Echinoida;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ;0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 2605;
                                                                                                                                                                                                                                                                                                                                                                                            /mol_type="mRNA"
/db_xref="taxon:9666"
/db_xref="taxon:9666"
/clone="csoDloll34A07"
/tissue_type="Placenta Cot_25-normalized"
/plasmid="pCMVSPORT_6"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            organism="Strongylocentrotus purpuratus"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /tissue_type="embryo"
/cell_type="primary mesenchyme_cells"
/lab_host="E.coli"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Dept. Biol. Sci.
Carnegic Mellon University
4400 Fifth Avenue, Pittsburgh, PA 15213, USA
Tell: +1 412 268 5849
Email: ettensohn@andrew.cmu.edu.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Strongylocentrotidae; Strongylocentrotus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DB 3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match 100.0%; Score 42; DB 3; Best Local Similarity 100.0%; Pred. No. 0.052; Matches 42; Conservative 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     cells of the sea urchin embryo
Development 128 (13), 2615-2627 (2001)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /mol_type="mRNA"
/db_xref="taxon:7668"
/clone="PM990802-04-0459"
                                                                                                                                                                                                                                                                                                                                                     1. .2605
/organism="Homo sapiens"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Strongylocentrotus purpuratus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   BG787987
BG787987.1 GI:14159000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Contact: Ettensohn CA
                                                 (bases 1 to 2605)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             . .818
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              library
                               Faraday Avenue
                                                                             Genoscope
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        21384984
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         source
                                                                                                                                                                                                                                                                                                                                                       source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DEFINITION
                                                      REFERENCE
AUTHORS
                                                                                                       TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MEDLINE
PUBMED
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FEATURES
                                                                                                                                                                                                                                                                                                                              FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 BG787987
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TITLE
                                                                                                                                                                                                    COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Genoscope - Centrer National de Sequencage
2 rue Gaston Cremieux, CP 5706 - 91057 EVRY cedex - FRANCE
Bmail: seqreté@enoscope.cns.fr, Web : www.gascope.cns.fr
1st strand cDNA was primed with a NotI-oligo(dT) primer. Five prime
end enriched, double-strand cDNA was digested with Not I and cloned
into the Not I and EcoR V sites of the pCMYSPORT & vector. Library
was normalized. Library was constructed by Life Technologies, a
division of Invitrogen. This sequence belongs to sequence cluster
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2605 bp mRNA linear HTC 21-JUL-2004 full-length cDNA clone CSODI013YA07 of Placenta Cot 25-normalized of Homo sapiens (human).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                      EST 25-MAR-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /tissue type="PLACENTA COT 25-NORMALIZED"
/clone lib="Homo sapiens PLACENTA COT 25-NORMALIZED"
/note="lst strand cDNA was primed with a NotI-oligo(dT)
primer. Five prime end enriched, double-strand cDNA was
digested with Not I and cloned into the Not I and EcoR V
sites of the pCMVSPORT 6 vector. Library was normalized."
                                                                                                                                                AL545100 ALF BST 25-MAR-2004 ALF ALF STOOM BALF BST 25-MAR-2004 AL545100 Homo sapiens PLACENTA COT 25-NORMALIZED Homo sapiens CDNA Clone CSODI013YA07 5-PRIME, MRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Eukaryota, Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1. (bases 1 to 2665)
Li, W.B., Gruber, C., Jessee, J. and Polayes, D.
Full-length cDNA libraries and normalization
                                                                                                                                                                                                                                                                                                                                             Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

1 (bases 1 to 985)

Li, W.B., Gruber, C., Jessee, J. and Polayes, D.

Full.length cDNA libraries and normalization

Unpublished (2001)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              For more information about this cluster, see http://www.genoscope.cns.fr/cdna?s=CSODI013AA04QP1&c=1383.f. Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      On Feb 15, 2001 this sequence version replaced gi:31266936.
Contact: Genoscope
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Contact : Feng Liang Email : fliang@lifetech.com URL :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               100.0%; Score 42; DB 1; Length 985; 100.0%; Pred. No. 0.046; ive 0; Mismatches 0; Indels
     1 AAGGAAGGAGGAAGGGAAGGAAGGAAGGAAGGAGTGAAA 42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  31 AAGGAAGGAGAAGGGAAGGAGTGAAGGAAGGAGTGAAA 72
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /organism≂"Homo sapiens"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /mol_type="mRNA"
/db_xref="taxon:9606"
/clone="CSODI013YA07"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CR613851.1 GI:50494658
HTC; CNSLT_CDNA.
                                                                                                                                                                                                                                                          AL545100.3 GI:45745585
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Homo sapiens (human)
                                                                                                                                                                                                                                                                                                         Homo sapiens (human)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   42; Conservative
                                                                                                                                                                                                                                                                                                                                Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Best Local
Matches 4
                                                                                                                                                        LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DEFINITION
                                                                                                                                                                                                                                                                                                                                   ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                      REFERENCE
AUTHORS
TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TITLE
JOURNAL
REMARK
                                                                                                                                                                                                                                   ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  REFERENCE
                                                                                                                                                                                                                                                                               KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 3
CR613851
```

FEATURES

ORIGIN

à 셤

; 0

Gaps

ö

VERSION KEYWORDS

8

SOURCE

TITLE

COMMENT

```
/clone lib="NCI_CGAP_Oy32"
/note="Organ: ovary; Vector: pAMP1; mRNA made from ovarian
cardinoma, cDNA made by oligo-dr priming
Non-directionally cloned. Size-selected on agarose gel,
average insert size 500 bp. Non-amplified library. "
                                                                                                                                                                                                                                                                                                                                                                                                                                                    AIS52833 103 bp mRNA linear EST 05-NOV-1998
TOWN COMPANY COMP. STREET OF STR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GSS 25-FEB-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Mus musculus
Eukaryota, Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Bukaryota; Metazoa; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 154)
Zhao,S., Nierman,W., Feldblyum,T., Malek,J., Shatsman,S.,
Akinret,B., Levins,M., Mcgann,S., Tsegaye,G., Geer,K., Krol,M., de Jong,P. and Frasner,C.M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

    (bases 1 to 103)

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 (bases 1 to 103)
NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index
Unpublished (1997)
                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ch 74.8%; Score 31.4; DB 1; Length 103; 1 Similarity 85.4%; Pred. No. 37; 35; Conservative 0; Mismatches 6; Indels (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            154 bp DNA linear G
RPCI-23-385H23.TV RPCI-23 Mus musculus genomic clone
RPCI-23-385H23, genomic survey sequence.
                                                                      Length 643;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /tissue_type="papillary serous carcinoma"
/lab host="DH108"
                                                                                                                                            Indela
                                                                                                                                                                                                           42
                                                                                                                                                                                                                                                                  2 AGGAAGGAGAAGGAAAGGAAGGAAGGAAGGAAGGAGTGAAA 42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            27 AGGAAGGAGAGAAAGGAAGGAAGGAAGGAAGAAAA 67
                                                                                                                                                                                                           2 AGGAAGGAGGAAGGGAAGGAAGGAAGGAAGGAGTGAAA
                                                                      DB 8;
                                                                  78.6%; Score 33; DB 87.8%; Pred. No. 16; iive 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Contact: Robert Strausberg, Ph.D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /organism="Homo sapiens"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:1984923"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Email: cgapbs-r@mail.nih.gov
unknown library type
Seg primer: -40UP from Gibco.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mus musculus (house mouse)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AI252833.1 GI:3849362
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AZ022385.1 GI:7097769
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /sex="female"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Homo sapiens (human)
                                                                  Query Match 78.6
Best Local Similarity 87.8
Matches 36; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     mRNA sequence.
AI252833
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Best Local Similarity
Matches 35; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GSS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 7
AZ022385/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                     RESULT 6
AI252833
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      VERSION
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          LOCUS
                                                                                                                                                                                                               ð
                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                10.5 Kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 (gi|4732114|qp|AF129072.11), a copy-numbar inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptored mouse DNA was annealed to adaptored vector DNA, and transformed into chemically-competent B. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
Wm. 108, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
84112, USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polymucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptored DNA was purified and size-selected for a 9.5 to
                                                                                                                                                                                                                                                                                                                                                                                                                                                               GSS 14-DEC-2000
                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. 1 (bases I to 643)
Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C., Islam, H., Longarere, S., Mahmoud, M., Meenen, E., Pedersen, T., Niederhauseern, A. and Wright, D., Weise, R., Tingey, A., von Niederhauseern, A. and Wright, D., Weise, R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                        AZ649302 643 bp DNA linear GSS 14-DEC-200 1M0518F16R Mouse 10kb plasmid UUGCIM library Mus musculus genomic clone UUGCIM0518F16 R, genomic survey sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /lab_host="E. Coli strain XLIO-Gold, Tl-resistant, F-"
/clone_lib="Mouse 10kb plasmid UTGCIM library"
/note="Vector: PWD42tv; Purified genomic DNA from M.
musculus C57BL/6J (male) was obtained from the Jackson
                                                                                                                                        Gaps
                                                                                                                                            ö
                                                              82.4%; Score 34.6; DB 4; Length 818; 90.2%; Pred. No. 5.8; tive 0; Mismatches 4; Indels (
                                                                                                                                                                                                                                                                          1 AAGGAAGGAGGAAGGAAGGAAGGAAGGAAGGAGGAGTGAA 41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunm8genetics.utah.edu
llsert Length: 10000 Std Error: 0.00
Plate: 0518 row: F column: 16
Seq primer: CACACAGGAAACAGCTAATGACC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Laboratory Mouse DNA Resource
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /organism="Mus musculus"
/mol_type="genomic DNA"
/strain="C57BL/6J"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           High quality sequence stop: 643.
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /db_xref="taxon:10090"
/clone="UUGC1M0518F16"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mus musculus (house mouse)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AZ649302.1 GI:11782476
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /sex="Male"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Class: plasmid ends
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Unpublished (2000)
                                                              Query Match 3 82.4 Best Local Similarity 90.2 Matches 37; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         643
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AZ649302
                                                                                                                                                                                                                                                                                                                                                                                     RESULT 5
AZ649302/c
LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           JOURNAL
```

FEATURES

ö

ö

```
Email: ekirknes@tigr.org
Class: shotgun.
                                                                   j. .156
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AZ714952
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT 9
AZ714952/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AUTHORS
                                                FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COMMENT
                                                                                                                                                                                                                                                     ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LOCUS
                                                                                                                                                                                                                                                                                                                                                                                      à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /clone_lib="RPCI-23"
/note="Organ: Kidney/Brain; Vector: pBAC63.6; Site_1:
EcoRI; Site_2: EcoRI; Female C57BL/6J mouse kidney and/or
brain genomic DNA was isolated and partially digested
with a combination of EcoRI and EcoRI Methylase. Size
selected DNA was cloned into the pBAC63.6 vector at the
ECORI sites. The ligation products were transformed into
DH10B electrocompetent cells (BRL Life Technologies).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GSS 24-SEP-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Contact: Kirkness EF
The Institute for Genomic Research
Department of Bukaryotic Genomics, TIGR, 9712 Medical Center Drive,
Rockville, MD 20850, USA
Tel: 301-838-0208
Fax: 301-838-0208
                                                                                                                                                                                      Email: szhaodtigr.org
Clones are derived from the mouse BAC,library RPCI-23. For BAC
Clones are derived from the mouse BAC,library RPCI-23. For BAC
Clones are derived from the contact Pieter de Jong
(pieter@dejong.med.buffalo.edu). Clones may be purchased from
BACPAC Resources (http://bacpac.med.buffalo.edu/orderingframe.htm)
or from Resea ch Genetics (info@resgen.com). BAC end page:
http://www.tigr.org/tdb/bac_ends/mouse/bac_end_intro.html
Plate: 385 row: H column: 23
Seq primer: T7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Canis familiaris

Wakaryota, Metazoa, Chordata, Craniata, Vertebrata, Buteleostomi,

Mammalia, Butheria,

1 (bases 1 to 156)

Kikressy, E.F., Bafna, V., Halpern, A.L., Levy, S., Remington, K.,

Rusch, D.B., Delcher, A.L., Pop, M., Wang, W., Fraser, C.M. and

Venter, J.C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Ligr-gss-dog-17000371107331 Dog Library Canis familiaris genomic, genomic survey sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The dog genome: survey sequencing and comparative analysis Science 301 (5641), 1898-1903 (2003)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match 74.8%; Score 31.4; DB 8; Length 154; Best Local Similarity 85.4%; Pred. No. 39; Matches 35; Conservative 0; Mismatches 6; Indels (
                                                                          Department of Eukaryotic Genomics
The Institute for Genomic Research
9712 Medical Center Dr., Rockville, MD 20850, USA
Tel: 301 838 0200
Exar: 301 838 0208
Email: szhao@tigr.org
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 AAGGAAGGAGAAAGGAAAGGAGTGAAGGAAGGAGTGAA 41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mouse BAC End Sequences from Library RPCI-23
Unpublished (1999)
Other GSSs: RPCI-23-385H23.TJ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          organism="Mus musculus"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /mol_type="genomic DNA"
/strain="C57BL/6J"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /clone="RPCI-23-385H23"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /db_xref="taxon:10090"
                                                                                                                                                                                                                                                                                                                                                                                                                              Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /lab_host="DH10B"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CE100567.1 GI:35167452
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Canis familiaris (dog)
                                                                     Contact: Shaying Zhao
                                                                                                                                                                                                                                                                                                                                                                                                                                              1. .154
                                                                                                                                                                                                                                                                                                                                                                                                       Class: BAC ends.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CE100567
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 22875432
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        14512627
                                                                                                                                                                                                                                                                                                                                                                                                                                                     source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SOURCE
ORGANISM
TITLE
JOURNAL
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TITLE
JOURNAL
MEDLINE
PUBMED
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                           FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CE100567
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
```

```
GSS 24-JAN-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Email: szhad@tigr.org
Clones are derived from the mouse BAC library RPCI-24. For BAC
Library availability, please contact Pieter de Jong
(pdejong@mail.cho.org). Clones may be purchased from BACPAC
Resources (http://www.chori.org/bacpac/orderingframe.htm). BAC end
page: http://www.tigr.org/tdb/bac_ends/mouse/bac_end_intro.html
Plate: 122 row: O column: 14
Seq primer: SP6
Class: BAC ends.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /cell type="Spleen/Brain"
/clone_lib="RPCI-24"
/note="Vector: pTARBAC1; Site 1: BamH1; Site_2: BamH1;
RPCI-24 Mouse BAC Library produced by Pieter de Jong. The library was cloned in the pTARBAC1 cloning vector at the BamH1 sites using MboI partially digested male C57BL/6J DNA."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi, Mammalia, Eutheria, Rodentia, Sciurognathi, Muridae, Murinae, Mus. 1 (bases 1 to 161)
Zhao,S., Nierman,W., Malek,J., Shatsman,S., Akinret,B., Levins,M., Tsegaye,G., Geer,K., Krol,M., Shvartsbeyn,A., Gebregeorgis,E., Russell,D., de Jong,P. and Fraser,C.M.
Mouse BAC End Sequences from Library RPCI-24
                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                            /organism="Canis familiaris"
/mol type="genomic DNA"
/strain="Standard Poodle"
/db xref="taxon:9615"
/clon=lib="Dog Library"
/note="Site 1: BetXI; Libraries were prepared from peripheral Dlood"
                                                                                                                                                                                                                                                                                                                                                                                ;;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AZ714952 1inear C
RPCI-24-122014.TJ RPCI-24 Mus musculus genomic clone
RPCI-24-122014, genomic survey sequence.
                                                                                                                                                                                                                                                                                                                       Length 156
                                                                                                                                                                                                                                                                                                                                                                                Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Unpublished (1999)
Other GSSs: RPCI-24-122014.TV
Contact: Shaying Jaso
Department of Eukaryotic Genomics
The Institute for Genomic Research
9712 Medical Center Dr., Rockville, MD 20850, USA
Fax: 301 838 0208
                                                                                                                                                                                                                                                                                                                                                                                                                                         41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          23 AAGGAAGGAAGGGAAGGGAAGGAAGGAGGGAGGGAA 63
                                                                                                                                                                                                                                                                                                                                                                                                                                      1 AAGGAAGGAGGAAAGGAAAGGAAGGAAGGAGTGAA
                                                                                                                                                                                                                                                                                                                                                                                9
                                                                                                                                                                                                                                                                                                                 Query Match 74.8%; Score 31.4; DB 9; Best Local Similarity 85.4%; Pred. No. 39; Matches 35; Conservative 0; Mismatches 6;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1. .161
/organism="Mus musculus"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             'mol type="genomic DNA"
'strain="C57BL/6J"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   db_xref="taxon:10090"
'clone="RPCI-24-122014"
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Mus musculus (house mouse)
Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AZ714952.1 GI:12451177
GSS.
```

g

```
Query Match
                                                                                                                VERSION
KEYWORDS
SOURCE
ORGANISM
AZ868613/c
LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              source
                                                                                               ACCESSION
                                                                                                                                                                                                                                                                               AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                       JOURNAL
                                                                                                                                                                                                                                                         REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FEATURES
                                                                                                                                                                                                                                                                                                                                                                            TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                             COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /clone="Organ: Kidney/Brain; Vector: pBACe3.6; Site_1:
fnote="Organ: Kidney/Brain; Vector: pBACe3.6; Site_1:
EcoR1; Site_2: EcoR1; Female C57BL/6J mouse kidney and/or
brain genomic DNA was isolated and partially digested
with a combination of EcoRI and EcoRI Methylase. Size
selected DNA was cloned into the pBACe3.6 vector at the
ECORI sites. The ligation products were transformed into
DH10B electrocompetent cells (BRL Life Technologies). "
                                                    ö
                                                                                                                                                                                                                                                         AQ980187 170 bp DNA linear GSS 29-JAN-2000 RPCI-23-342A9, TV RPCI-23 Mus musculus genomic clone RPCI-23-342A9,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                        Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Musinae; Mus. L (basea I to 170)
Zhao,S., Nierman,W., Feldblyum,T., Malek,J., Shatsman,S., Akinret,B., Levins,M., Mcgann,S., Tsegaye,G., Geer,K., Krol,M., de Mouse BAC End Sequences from Library RPCI-23
Unpublished (1999)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Email: szhao@tigr.org
Clones are derived from the mouse BAC library RPCI-23. For BAC
Clones are derived from the mouse BAC library availability, please contact Pieter de Jong
(pieter@dejong.med.buffalo.edu). Clones may be purchased from
BACPAC Resources (http://bacpac.med.buffalo.edu/orderingframe.htm)
or from Resea ch Genetics (info@resgen.com). BAC end page:
Plate: Jr. www.tigr.org/tdb/bac_ends/mouse/bac_end_intro.html
Plate: Trow: A column: 9
Seq primer: Trow.A column: 9
Class: BAC ends.
                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
       Length 161;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           74.8%; Score 31.4; DB 8; Length 170; 85.4%; Pred. No. 39;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Other GSSB: RPCI-23-342A9.TJ
Contact: Shaying Zhao
Department of Eukaryotic Genomics
The Institute for Genomic Research
712 Medical Center Dr., Rockville, MD 20850, USA
7el: 301 838 0200
Fax: 301 838 0208
                                                  Indels
                                                                                               41
                                                                                                                                        102 AAGGAAGAAGGAAGGAAGGAAAGAAAGGAATGAA 62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 AAGGAAGGAGGAGAAGGAAGGAGTGAAGGAAGGAGTGAA 41
                                                                                               1 AAGGAAGGAGGAGAAGGGAAGGAGGAAGGAGGAGTGAA
                                                    9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           .,
    DB 8;
  74.8%; Score.31.4; Dilarity 85.4%; Pred. No. 39; Conservative 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /organism="Mus musculus"
/mol_type="genomic DNA"
/strain="C57BL/6J"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /db_xref="taxon:10090"
/clone="RPCI-23-342A9"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /lab_host="DH10B"
                                                                                                                                                                                                                                                                                                                                                                                             Mus musculus (house mouse)
Mus musculus
                                                                                                                                                                                                                                                                                                           genomic survey sequence.
                                                                                                                                                                                                                                                                                                                                                    AQ980187.1 GI:6812488
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /sex="Female"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         35; Conservative
  Ouery Match
Best Local Similarity
Matches 35; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Best Local Similarity
Matches 35; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           source
                                                                                                                                                                                                                                                                                                                                                                          KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                      AQ980187/c
                                                                                                                                                                                                                                                           LOCUS
                                                                                                                                                                                                                                                                                                                            ACCESSION
VERSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COMMENT
```

```
/exammale Occamoration of Sexe Manle (1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 - 1867 -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
         GSS 21-FEB-2001
                                                                                                                                                                                                                                                                                                                                                  Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. I base; I to 3491.A.; Barber,M.; Beacorn,T.; Duval,B.; Hamil,C.; Islam,H.; Longacre,S.; Mahmoud,M.; Meenen,E.; Pedersen,T.; Nese,M.; Rose,M.; Rose,M.; Rose,M.; Rose,M.; Rose,M.; Maright,D.; Weise,R.; Tingey,A.; von
AZ868613 346 bp DNA linear GSS 21-FEB-200
2M0180H305 Mouse 10kb plasmid UUGCIM library Mus musculus genomic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         74.8%; Score 31.4; DB 8; Length 346; Larity 85.4%; Pred. No. 43; Conservative 0; Mismatches 6; Indels (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        344 AAGGAAGGAGGAAGGAAGGACGGAAGGAAGGAAGGAA
                                                                                                 clone UUGC2M0180H20 F, genomic survey sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1 AAGGAAGGAGGAAAGGAAGGAGGAAGGAAGGAGGAGTGAA 41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Std Error: 0.00
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Insert Length: 10000 Std Error:
Plate: 0180 row: H column: 20
Seg primer: CGTFGTAAAAGGAGGCCAGT
Class: plasmid ends
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 organism="Mus musculus"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       plasmid inserts
Unpublished (2000)
Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           High quality sequence stop: 346.
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /mol_type="genomic_DNA"
/strain="C57BL/6J"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              db_xref="taxon:10090"
clone="UUGC2M0180H20"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
                                                                                                                                                                                                                                                                            Mus musculus (house mouse)
Mus musculus
                                                                                                                                                                                         AZ868613.1 GI:13072103
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Best Local Similarity
Matches 35; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Rm. 308, Bi
84112, USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ઠે
```

106 AAGGAAGGAGGAAGGAAGGACGGAAGGAAGGAAGGAA 66

RESULT 11

g ò

LOCUS

ACCESSION

VERSION KEYWORDS

4Q628256/c

ORGANISM

SOURCE

REFERENCE AUTHORS JOURNAL

COMMENT

TITLE

FEATURES

DRIGIN

ò g

```
vmedd08.1 Knowles Solter mouse 2 cell Mus musculus cDNA clone AA684155
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Butheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (Dases 1 to 514)
Marra, Hillier, Allen, M., Bowles, M., Dietrich, N., Dubuque, T., Gelsel, S., Kucaba, T., Lacy, M., Le, M., Martin, J., Morris, M., Schellenberg, K., Steptoe, M., Tan, F., Underwood, K., Moore, B., Theising, B., Wylie, T., Lennon, G., Soares, B., Wilson, R. and
                        Washington University School of MedicineP
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Faz: 314 286 1810
Email: 314 286 1810
Email: mouseest@watson.wustl.edu
Email:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      This clone is available royalty-free through LLNL; contact the IMAGE Consortium (info@image.llnl.gov) for further information. MGI:567719
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WashU-HHMI Mouse EST Project
Washington University School of MedicineP
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800
Fax: 314 286 1810
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DB 1; Length 424;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               284 AAGGAAGGAGGAAGGAAGGAAGGAAGGAAGGAAGGAA 324
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 AAGGAAGGAGAAAGGAAAGGAGTGAAGGAAGGAGTGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            14.8%; Score 31.4; Dilarity 85.4%; Pred. No. 44; Conservative 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The Wash HIMI Mouse EST Project
Unpublished (1996)
Contact: Marra M/Mouse EST Project
                                                                                                                                                                                                                                                                                                                                                                                                                                         'organism="Mus musculus"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Email: mouseest@watson.wustl.edu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       db_xref="taxon:10090"
clone="IMAGE:1196437"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    High quality sequence stop: 496.
Location/Qualifiers
1..514
WashU-HHMI Mouse EST Project
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /mol_type="mRNA"
/strain="C57BL/6"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mus musculus (house mouse)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             sex="females"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AA684355.1 GI:2670941
                                                                                                                                                                                                                                                                                                                                                                                                      . .424
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local Similarity
Matches 35; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Waterston, R.
                                                                                                                                                                                                                                                                                                                                                                                                          source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 14
AA684355
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TITLE
JOURNAL
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AUTHORS
                                                                                                                                                                                                                                                                                                                                                                       FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
   AQ628256
CITBL-E1-2650L1.TR CITBL-E1 Homo sapiens genomic clone 2650L1,
genomic survey sequence.
                                                                                                                                                                                                                                                                                                                                                         1 (bases 1 to 408)
Zhao,S., Adams,M.D., Nierman,W., Malek,J., Shizuya,H., Simon,M. and Venter,J.C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAV.941/3
VUG7b07.rl Stratagene mouse skin (#937313) Mus musculus CDNA clone
AAV.9411196437 5', mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                    Use of BAC End Sequences from CalTech Libraries for Sequence-Ready Map Building
Unpublished (1997)
Other GSSs: CITBI-E1-2650L1.TF
Contact: Shaying Zhao, William Nierman, Mark Adams
Department of Eukaryotic Genomics
The Institute for Genomic Research
9712 Medical Center Dr., Rockville, MD 20850
Tel: 301 838 0200
Fax: 301 838 0200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. 1 (bases I to 424)
Marra,M., Hillier,L., Allen,M., Bowles,M., Dietrich,N., Dubuque,T., Schellenberg,K., Steptoe,M., Tan,F., Underwood,K., Moore,B., Theising,B., Wylie,T., Lennon,G., Soares,B., Wilson,R. and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Email: hbeerigr.org
Clones are available from Research Genetics (info@resgen.com). BAC
Actoriology and search page:
http://www.tigr.org/tdb/humgen/bac_end_search/bac_end_search.html.
Seq primer: M13 Reverse
Class: BAC ends.
                                                                                                                                                                                                                                                                                       Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /cell_type="sperm"
/clone_lib="CITBI-E1"
/note="Vector: pBeloBAC11; Site_1: EcoR1; Site_2: EcoR1;
CalTech Human BAC Library D"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 408;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     373 AAGGAAGGAGGGAGGGAAGGAAGGAGGAAGGAAGGAA 333
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 AAGGAAGGAGAAGGAAAGGAAGGAAGGAAGGAAGTGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DB 8;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     74.8%; Score 31.4; D
85.4%; Pred. No. 43;
iive 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Contact: Marra M/Mouse EST Project
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
/clone="2650L1"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The WashU-HHMI Mouse EST Project
Unpublished (1996)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mus musculus (house mouse)
Mus musculus
                                                                                                                          AQ628256
AQ628256.1 GI:5090648
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AA794173.1 GI:2857128
                                                                                                                                                                                                                           Homo sapiens (human)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /sex="male"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local Similarity 85.49
Matches 35; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1. .408
                                                                                                                                                                                                                                                              Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Waterston, R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AA794173
```

AA794173 LOCUS DEFINITION

ACCESSION VERSION KEYWORDS SOURCE

ORGANISM

REFERENCE AUTHORS TITLE JOURNAL COMMENT

ö

Gaps

us-09-617-720a-3.rst

```
Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi, Mammalia, Eutheria, Rodentia, Sciurognathi, Muridae, Murinae, Mus. 1 (bases 1 to 524)
Piao, Y., Ko, N.T., Lim, M.K. and Ko, M.S.H.
Construction of long-transcript enriched cDNA libraries from submicrogram amcunts of total RNAs by a universal PCR amplification
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CF898116 5.01A Mouse Embryonic Germ Cell cDNA Library (Long, subtracted) Mus musculus cDNA clone NIA:A0234D08 IMAGE:30731659 5',
                                                                                                                                                                                            /clone_lib="Knowles Solter mouse 2 cell"
/note="Organ: embryo; Vector: pBluescribe (modified);
Site_1: Mul; Site_2: Sall; Cloned unidirectionally from
RNA prepared from 13,500 2-cell stage embryos. Primer:
Sall(dT): 5'-CGGTCGACCGTCGACCGTTTTTTTTTTTTTTTTT.3'.
pBluescribe vector using commercial linkers (NEB).
Average insert size: 1.2 kb."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /clone_lib="NIA Mouse Embryonic Germ Cell cDNA Library (Long, subtracted)"
/note="vector: pCMV-SPORT6 [Invitrogen); Site_l: Sall;
Site_2: Not!; Mouse CDNA project by the Laboratory of GeneTics, National Institute on Aging (NIA), Intramural
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Laboratory of Genetics
National Institutes of Health
333 Cassell Drive, Suite 4000, Baltimore, MD 21224-6820, USA
Email: cdnaedgsun.grc.nia.nih.gov
Plate: A0234 row: D column: 08
Seq primer: M13 Reverse
High quality sequence stop: 524
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match 74.8%; Score 31.4; DB 1; Length 514; Best Local Similarity 85.4%; Pred. No. 45; Matches 35; Conservative 0; Mismatches 6; Indels (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         351 AAGGAAGGAGGAAGGAAGGAAGGAAGGAAGGAAGGAA 391
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /db xref="miaEST:A0234D08-5"
/db xref="taxon:10090"
/db xref="taxon:10090"
/clone="NIA:A0234D08 IMAGE:30731659"
                       /mol_type="mRNA" ~
/strain="C57BL/6J x DBA/2J F1"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /dev_stage="embryonic day 8"
/lab_host="DH108"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Genome Res. 11 (9), 1553-1558 (2001)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1. .524
/organism="Mus musculus"
musculus"
                                                                                                   /clone="IMAGE:1003503"
                                                                         db_xref="taxon:10090"
                                                                                                                     /tissue_type="embryo"
/dev_stage="2-cell"
/lab_host="DH108"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Contact: Dawood B. Dudekula
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mus musculus (house mouse)
Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /mol_type="mRNA"
/strain="C57BL6"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CF898116.1 GI:38165165
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /sex="male"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                mRNA sequence.
CF898116
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            POLYA=No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         21429098
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       nethod
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CF898116/c
LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       JOURNAL
MEDLINE
PUBMED
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                     ORIGIN
```

pCMV-SPORT6 plasmid vector. The DH10B E. coli host was transformed with the ligation mixture by the standard chemical method. The average insert size is about 2.2kb The library was constructed by Yulan Piao and Kazuhiro

엄 ઠ

Gaps . 0 74.8%; Score 31.4; DB 7; Length 524; 85.4%; Pred. No. 45; ive 0; Mismatches 6; Indels C Query Match Best Local Similarity 85.49 Matches 35; Conservative

ö

447 AAGGAAGGAGGAGGAAGGAAGGAAGGAAGGAAGGAA 407 1 AAGGAAGGAGGAAAGGAAGGAAGGAAGGAAGGAGTGAA 41 ð

Search completed: March 13, 2005, 18:14:03 Job time : 144.39 secs

1, Appli 102, App 15868, A 11835, A

15868, A 161835, A 11935, A 11936, A 161139, A 11934, A 115921, A 12560, A 13312, A 16360, A

Sequence la sequen

nucleic

е ::

Sequence:

Minimum DB Maximum DB

Database

Result Š

Searched:

```
301 GIGCCAAGGAAICCAAGAGCTICACCTICIACCGGCGGGACAIGGGGCICACCICCAGCI 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               253 IGCATGCAGGGAAGGTCATTAAAGGTGAAGAGATCAGCGTGGTCGTCCCCCAATCGGTGGCTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ATGCCAGCCTGTCCCCCCGTCATCCTGGGTGTTCCAGGTGGAAGCCAGTGCCTGTCATGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GGGTGGGGCAGGAGCCGACTCTAACACTAGAGCCAGTGAACATCATGGAGCTCTATCTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              133 AGGGGAGTCTACACCCTGTGGAGCTCAAGATGGTCCTGAGTGGGGCGCTGTGCTTCCGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          193 TGAAGGACTCGGCATTGAAGGTGCTTTATCTGCATAATAACCAGCTTCTAGCTGGAGGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TGCATGCAGGGAAGGTCATTAAAGGTGAAGAGATCAGCGTGGTCCCCAATCGGTGGCTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ATGCCAGCCTGTCCCCCGTCATCCTGGGTGTCCAGGGTGGAAGCCAGTGCCTGTCATGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GGGTGGGGCAGGAGCCGACTCTAACACTAGAGCCAGTGAACATCATGGAGCTCTATCTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AGGGGAGTCTACACCCTGTGGAGCTCAAGATGGTCCTGAGTGGGGCGCTGTGCTTCCGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TGAAGGACTCGGCATTGAAGGTGCTTTATCTGCATAATAACCAGCTTCTAGCTGGAGGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASS TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF FILE REPERENCE: CLOO1307 CURRENT APPLICATION NUMBER: US/09/949,016 CURRENT FILING DATE: 2000-04-14 PRIOR FILING DATE: 2000-10-20 PRIOR PELICATION NUMBER: 60/241,755 PRIOR APPLICATION NUMBER: 60/241,755 PRIOR APPLICATION NUMBER: 60/231,498 PRIOR PRING DATE: 2000-10-03 PRIOR FILING DATE: 2000-09-08 PRIOR FILING
                                                                                        US-09-573 080A-102
US-09-949-016-15868
US-09-949-016-11835
US-09-949-016-11835
US-09-949-016-11926
US-09-949-016-11926
US-09-949-016-11934
US-09-949-016-15511
US-09-949-016-15501
US-09-949-016-15501
US-09-949-016-15501
US-09-949-016-15701
US-09-949-016-15701
US-09-949-016-118312
US-09-949-016-118312
US-09-949-016-118312
US-09-949-016-118312
US-09-949-016-118312
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 2515.2;
Pred. No. 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Pred. No. 0;
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ALIGNMENTS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-09-949-016-3485; Application US/09949016; Patent No. 6812339
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          98.1%;
99.6%;
11.1

357

11.1

357

1.7

466

6.1

374

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

100550

6.0

10050
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local Similarity 99.6
Matches 2553; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TYPE: DNA
ORGANISM: Human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US-09-949-016-3485
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQ ID NO 3485
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LENGTH: 2699
      181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   313
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           373
      υυ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        음 상 음
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 956, App
Sequence 12698, A
Sequence 15271 A
Sequence 8, Appli
Sequence 8, Appli
Sequence 7, Appli
Sequence 6, Appli
Sequence 6, Appli
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 3485, Ap
Sequence 6, Appli
Sequence 6, Appli
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Appli
Appli
Appli
Appli
Appli
                                                                                                                                                                                                                ; Search time 478.866 Seconds (without alignments) 8757.724 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Seguence 36664,
Seguence 123784,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Description
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence
                                                                                                                                                                                                                                                                                                                                                                                                          1 aggggagtctacaccctgtg.....ataatatgcagagaaagaga
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Issued Patents NA:*

(cgn2_6/ptodata/1/ina/5A_COMB.seq:*
(cgn2_6/ptodata/1/ina/5B_COMB.seq:*
(cgn2_6/ptodata/1/ina/6A_COMB.seq:*
(cgn2_6/ptodata/1/ina/6B_COMB.seq:*
(cgn2_6/ptodata/1/ina/PcTUS_COMB.seq:*
(cgn2_6/ptodata/1/ina/PcTUS_COMB.seq:*
                                     GenCore version 5.1.6
(c) 1993 - 2005 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-09-949-016-3485

US-09-417-455-6

US-09-348-94-6

US-09-547-626-6

US-09-949-016-1269

US-09-949-016-1269

US-09-349-016-1269

US-09-349-016-1527

US-09-348-942-8

US-09-457-626-8

US-09-457-626-8

US-09-477-626-7

US-09-477-626-7

US-09-477-626-4

US-09-477-626-2

US-09-477-626-2

US-09-477-626-2

US-09-477-626-2

US-09-477-626-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           -09-949-016-3664
-09-949-016-123784
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1202784 seqs, 818138359 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SUMMARIES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                                                                                             nucleic search, using sw model
                                                                                                                                                                                                                   2005, 12:28:28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gapop 10.0 , Gapext 1.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    length: 0
length: 2000000000
                                                                                                                                                                                                                                                                                                                                        US-09-617-720A-1
2563
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query
Match Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   IDENTITY NUC
                                                                  Copyright
                                                                                                                                                                                                                   March 13,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               6633.1
6633.1
6633.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663.1
663
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 H 27 E 47 E 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Post-processing:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       sed
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Title:
Perfect score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Scoring table:
```

ASSOCIATED
OF DETECTION AND USES THEREOF

m .

Gaps

3;

.; 6

4; Length 2699; Indels 192 120 252 180 312 240 372 300

9

us-09-617-720a-1.rni

•	Db 1512 TACAATGAAGATGAATTCCTTGTATAAAATAAGAAAAGAAATTAATCTTGAGGTAAGCA   Qy	1500	Oy 1560 CACTGAGGAGGAGGAGGTGCTGAGTTTGTGTGGGGAATCTCTGGGTAAGGAACTTAAA	1620	OY 1680 AITGGAICCAGICTCTAAGAAGGCTGCTGTTGATTGTGTCCCCCTCAAITCA	Oy 1740 CATCCTTGGAATCTCAGTCTGGAGTTTATTTGGAGATAAGGTCTCTGCAGATGTAG	Qy 1800 TTAGTTAAGACAAGGTCATGCTGGATGAAGGTAGACCTAAATTCAATATGACTGGTTTCC	QY 1860 TTGTATGAAAAGGAGACACAGAGACAGAGAGAGAGGGGAAGACTATGTAAAGATG	OY 1920 AAGGCAGAGATCGGAGTTTTGCAGCCAAAGCTAAGAACACCAAGGATTGTGGCAACCA	OY 1980 TCAGAAGCITGGAAGAGCAAAGAATTCTTCCCTAGAGGCTTTAGAGGGATAACGGC	Oy 2040 TCTGCTGABACCTTAATCTCAGCCTCCTGAACGAAGAAAGAATAAATTTCGG	OY 2100 CTGTTTTAAGCCACCAAGGATAATTGGTTACAGCAGCTCTAGGAAACTAATACAGCTGCT	Oy 2160 AAAATGATCCCTGTCTCGTGTTTACATTCTGTGTGTGTCCCCTCCCACAATGTACCA	OY 2220 AAGTTGTCTTTGTGACCCAATAGAATATGGCAGAAGTGATGCCATTCCAAGATT	Oy 2280 AGGTTATAAAAGACACTGCAGCTCTTCTAGCTCTCTCTGCCACCCAC	QY 2340 CAATCTTGGCTCACTGGCTCTGGGGGAAGCTAGCTGCCATGCTATGAGCAGGCCTA	OY 2400 TAAAGAGACTTACGTGGTAAAAATGAAGTCTCCTGCCCACAGCCACATTAGTGAACCTA	Oy 2460 GAAGCAGAGACTCTGTGAGATAATCGATGTTTGTTTTTAAGTTGCTCAGTTTTGGTCT
	433 GTGCCAAGGAATCCAAGAGCTTCACCTTCTACCGGCGGGACATGGGGCTCACCTCCAGCT 492 361 TCGAGTCGCTACCTACCGGGCTGGTTCCTGTGCAGCGTGCCTGAAGCGTCAGCTG 420	421 TCAGACTCACCCAGAGATCCCGAGAATGGTGGCTGGAATGCCCCCATACACGACTTCTACT 480  121 TCAGACTCACCAGAGTTCCCGAGAATGGTGGCTGGAATGCCCCCATACACAGACTTCTACT 480  123 TCAGACTCACCAGCTTCCCGAGAATGGTGGCTGGAATGCCCCCCATCAGAGAGTTGCTACT 612	481 TCCAGCAGTGTGACTAGGGCAACGTGCCCCCCAGAACTCCCTGGGCAGAGCCAGGCTGGG 540	GTGAGGGGTGAGTGGAGGAGCCCATGGCGGACAATCACTTTTTGTGCTCTCAGGACCCCC	601 CAGGICTGACTTAGTGGGCACCTGACCACTTTGTCTTCTGGTTCCCAGTTTGCATAAATT 660 	CTGAGATTTGGAGCTCAGTCCAGGGTCCTCCCCACTGGATGGTGCTACTGCTGCTGGAAC	CTIGTAAAAACCAIGTGGGGTAAACTGGGAATAACATGAAAAGATTTCTGTGGGGGTGGG 7	GTGGGGGAGTGCTGGAATCATTCCTGCTTAATGGTAACTGACAAGTGTTACCCTGAGCC	CCGCAGGCCAACCCATCCCCAGTTATAGGCTAATGATAACTCCCACACTTACCCTTATAGGCTCAGTAACTCCCACATGAAGTC	CCGCAGGCCCAACCCATCCCCAGGGGGGCGTGTATAGGGGGTAGGGGCCTCCACAA CTCTCACTCACCACTGGGGGGGGGG	TGGCCCACCCCCCCTTCCTTT-ATCCTGCCATGTCATATGCTACTTTTCCTATC	GGTTCG 10	GATACA 1	•		TATTICTITATAGAAAAAGTCIGGAAGAGTTTACTICAATTGTAGCAATGTCAGGGTG 13		1452 TGGCAGTATAGGTGATTTTCTTTTAATTCTGTTAATTTATCTGTATTTCTGTATTTCCTAATTTTC 1511 1380 TACAATGAAGATGAATTCCTTGTATAAAATAAGAAAAGAAATAAAT

g

ઠે

```
1019
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1051
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1079
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1139
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1171
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1231
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1258
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1318
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1378
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1438
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1291
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1351
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1411
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1471
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AGAGCAGACATCATCTCTGATTGTCCTCAGCCTCCAATTCCCCAGAGTAAATTCAAATTG 1498
                                                   480
                                                                          512
                                                                                                   540
                                                                                                                                                     900
                                                                                                                                                                                                        99
                                                                                                                                                                                                                                                                                                                                                               840
                                                                                                                                                                                                                                                                                                                                                                                                                  900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      960
420
                         452
                                                                                                                             571
                                                                                                                                                                               631
                                                                                                                                                                                                                                  691
                                                                                                                                                                                                                                                          720
                                                                                                                                                                                                                                                                                    751
                                                                                                                                                                                                                                                                                                             780
                                                                                                                                                                                                                                                                                                                                      811
                                                                                                                                                                                                                                                                                                                                                                                         871
                                                                                                                                                                                                                                                                                                                                                                                                                                            931
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              991
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CTGAGATTTGGAGCTCAGGGTCCTCCCCCACTGGATGGTGCTACTGCTGTGGAAC
                                                                                                                                                                                                                                                                                                                           GTGGGGGAGTGGGAATCATTCCTGCTTAATGGTAACTGACAAGTGTTACCCTGAGCC
                                                                                                                                                                                                                                                                                                                                                                                                                  CCGCAGGCCAACCCATCCCCAGTTGAGCCTTATAGGGTCAGTAGCTCTCCACATGAAGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                 CCGCAGGCCAACCCCATCCCCAGTTGAGCCTTATAGGGTCAGTAGCTCTCCCACATGAAGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TGGCCCAGCCCCACCCCTTCCCTTT-ATCCTGCCACTGTCATATGCTACCTTTCCTATC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    992 IGGCCCAGCCCCTCCCTTTAATCCTGCCACTGTCATATGCTACCTTCCTATC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AGCTCAGAAGATAAAAGATAAGTAGGGTATGCTGATCCTCTTTTAAAAACCCAAGATACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1112 AGCTCAGAAGATAAAAGATAAGGTATGCTGATCCTCTTTTAAAAACCCAAGATACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CTACAATGAAGATGAATTCCTTCTATAAAATTAAGAAAAGAAATTAATCTTGAGGTAAGC
                        reakerceceraceaecrescrestrecrererecesecrestreakecearcaecere
                                                                                                   TCCAGCAGTGTGACTAGGGCAACGTGCCCCCCAGAACTCCCTGGGCAGAGCCAGCTCGG
                                                                                                                                                                                                                                                                         CTGAGATTTGGAGCTCCACCACCACCCCCCCACTGGATGGTGCTACTGCTGGGAAC
                                                                                                                                                                                                                                                                                                             CTTGTAAAAACCATGTGGGGTAAACTGGGAATAACATGAAAAAGATTTCTGTGGGGGTGGG
                                                                                                                                                                                                                                                                                                                                                                 GTGGGGGAGTGCTGGAATCCTGCTTAATGGTAACTGACAAGTGTTACCCTGAGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ATCAAAATCCCAGATGCTGGTCTCTATTCCCATGAAAAGTGCTCATGACATATTGAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GIGGCAGTATAGGTGATTTTTTTTAATTCTGTAATTTATCTGTATTTCCTAATTTTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Greecagraragerearritricritriaarricrerraarritarcrerarritri
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CTACAATGAAGATGAATTCCTTGTATAAAATAAGAAAAGAAATTAATCTTGAGGTAAGC
                                                                                                                                                      GTGAGGGGTGAGTGGAGGAGCCCATGGCGGACAATCACTCTTTCTGCTCTCAGGACCCC
                                                                                                                                                                                                        CAGGTCTGACTTAGTGGGCACCTGACCACTTTGTCTTCTGGTTCCCCAGTTTGCATAAATT
                                                                                                                                                                                                                    721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1439
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1080
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1172
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1232
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1259
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1292
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1319
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1352
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1379
361
                         393
                                                                          453
                                                                                                                                                      541
                                                                                                                                                                               572
                                                                                                                                                                                                          601
                                                                                                                                                                                                                                  632
                                                                                                                                                                                                                                                           199
                                                                                                                                                                                                                                                                                     692
                                                                                                                                                                                                                                                                                                                                       752
                                                                                                                                                                                                                                                                                                                                                               781
                                                                                                                                                                                                                                                                                                                                                                                         812
                                                                                                                                                                                                                                                                                                                                                                                                                    841
                                                                                                                                                                                                                                                                                                                                                                                                                                            872
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      901
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               932
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          961
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1412
                                                   421
                                                                                                   481
                  g
                                       ያ ያ
                                                                                                 Š
                                                                                                                     8 6 8
                                                                                                                                                                                                       8 8 8
                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                       ઠે
                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                 δ
                                                                                                                                                                                                                                                                                                                                                                                                                                    엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                              8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        8 8 S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            8 B 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    음 장
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ð
                                                                                                                                                                   USES THEREOF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           332
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    152
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       212
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        272
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              392
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                92
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AGGGGAGTCTACACCCTGTGGAGCTCAAGATGGTCCTGAGTGGGGGCGCTGTGCTTCCGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TGAAGGACTCGGCATTGAAGGTGCTTTATCTGCATAATAACCAGCTTCTAGCTGGAGGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TGCATGCAGGGAAGGTCATTAAAGGTGAAGAGATCAGCGTGGTCCCCAATCGGTGGCTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TGCATGCAGGGAAGGTCATTAAAGGTGAAGATCAGCGTGGTCCCCCAATCGGTGGCTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ATGCCAGCCTGTCCCCCGTCATCCTGGGTGTCCAGGGTGGAAGCCAGTGCCTGTCATGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GGGTGGGGCAGGAGCCGACTCTAACACTAGAGCCAGTGAACATCATGGAGCTCTATCTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GGGGGGGGGGGCGACTCTAACACTAGAGCCAGTGAACATCATGGAGCTCTATCTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     93 TGAAGGACTCGGCATTGAAGGTGCTTTATCTGCATAATAACCAGCTTCTAGCTGGAGGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 AGGGGAGTCTACACCCTGTGGAGCTCAAGATGGTCCTGAGTGGGGGCGCTGTGCTTCCGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                   RECEPTOR ANTAGONIST AND
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               5,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 2648;
          11; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DB 3;
                                                             RESULT 2
US-09-417-455-6
Sequence 6, Application US/09417455
patent No. 629465
; Sequence 6, Application US/09417455
; Patent No. 629465
; GENERAL INFORMATION:
APPLICANT: Pord, John
TITLE OF INVENTION: A NOVEL INTERLEUKIN-1 RECI
FILE REFERENCE: 28110/36328
; CURRENT FILING DATE: 1999-10-13
PRIOR APPLICATION NUMBER: US/09/417,455
; CURRENT FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 09/281,370
; PRIOR FILING DATE: 1999-04-05
; PRIOR PILING DATE: 1999-04-05
; PRIOR FILING DATE: 1999-04-05
; PRIOR FILING DATE: 1999-04-10
; PRIOR FILING DATE: 1999-04-10
; PRIOR FILING DATE: 1999-01-13
; PRIOR FILING DATE: 1999-01-13
; PRIOR PRILING DATE: 1999-01-13
; PRIOR APPLICATION NUMBER: US 09/229,591
; PRIOR FILING DATE: 1999-01-13
; PRIOR FILING DATE: 1999-05-15
; PRIOR FILING DATE: 1998-05-10
; PRIOR FILING DATE: 1998-05-15
; PRIOR PRILICATION NUMBER: US 09/055,010
; SOFTWARE: FEALSOR FOR WINDOWS VERSION 3.0
; SOFTWARE: FEALSOR FOR WINDOWS VERSION 3.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 2488.4;
Pred. No. 0;
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match 97.1%;
Best Local Similarity 95.4%;
Matches 2550; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TYPE: DNA
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2648
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-09-417-455-6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  33
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         213
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           273
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       153
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              333
```

g

ઠે 8 B

ઠે

셤 ઠે g ઠે 엄 ઠે 셤

ò g õ ద à g ò g ò

셤 ò

```
US-U9-348-942-6

Sequence 6, Application US/09348942

Fatent No. 6337072

GENERAL INFORMATION:

APPLICANT: JOHN FORD

TITLE OF INVENTION: A NOVEL INTERLEUKIN-1 RECEPTOR ANTAGONIST AND USES THEREOF

FILE REPERRICE: 28110/35801

CURRENT FILING DATE: 1999-07-07

CURRENT FILING DATE: 1999-07-07

EARLIER FILING DATE: 1999-04-05

BARLIER FILING DATE: 1999-01-13

BARLIER FILING DATE: 1998-07-31

BARLIER FILING DATE: 1998-05-10

BARLIER FILING DATE: 1998-05-10

BARLIER FILING DATE: 1998-05-10

BARLIER FILING DATE: 1998-05-15

BARLIER FILING DATE: 1998-05-15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       272
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         332
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TCAGACTCACCAGCTTCCCGAGAATGGTGGAATGCCCCCATCACAGACTTCTACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TGCATGCAGGGAAGGTCATTAAAGGTGAAGAATCAGCGTGGTCCCCCAATCGGTGGCTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GGGTGGGGCAGGCGGACTCTAACACTAGAGCCAGTGAACATCATGGAGCTCTATCTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    273 GGGTGGGGCAGGAGCCGACTCTAACACTAGAGCCAGTGAACATCATGGAGCTCTATCTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         301 GIGCCAAGGAAICCAAGAGCIICACCIICIACCGGCGGGGCATAGGGGCICACCICCAGCI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                rcaagreagerraceraaceragerrecraracacaceraceraaaacecaareage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               193 TCGAGTCGGCTGCCTACCTGGTTCCTGTGCACGGTCCTGAAGCCGATCAGCCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TGAAGGACTCGGCATTGAAGGTGCTTTATCTGCATAATAACCAGCTTCTAGCTGGAGGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length 2648;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    .,
2551 CTAACTTGTTATGCAGCAATAGATAAATAATATGCAGAAAAAAGA 2596
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AGGGGAGTCTACACCCTGTGGAGCTCAAGATGGTCCTGAGTGGGGCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DB 3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      11;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  97.1%; Score 2488.4;
99.4%; Pred. No. 0;
ive 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NUMBER OF SEQ ID NOS: 30 SOFTWARE: FastSEQ for Windows Version 3.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local Similarity 99.4
Matches 2550; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ; SEQ ID NO 6
; LENGTH: 2648
; TYPE: DNA
; ORGANISM: HOMO SADIENS
US-09-348-942-6
                                                            RESULT 3
US-09-348-942-6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      333
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             33
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               93
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                153
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              용
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               à
            용
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2458
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2310
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2430
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2431 ATAAAGAGACTTACGTGGTAAAAAATGAAGTCTCCTGCCCACAGCCACATTAGTGAACCT 2490
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AGAAGCAGAGACTCTGTGAGATAATCGATGTTTGTTGTTTT-AAGTTGCTCAGTTTTGGT 2517
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2491 AGAAGCAGAGACTCTGTGAGATAATCGATGTTTGTTTTAAAGTTGCTCAGTTTTGGT 2550
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2038
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2158
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2098
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2191
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1918
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2131
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2251
                                                                                                                                                                                                                                                                    1738
                                                                                                                                                                                                                                                                                                                                    ACATCCTTCGGAATCTCAGTCTGTGACTTATTTGGAGATAAGGTCTCTGCAGATGTA 1798
                                                                                                                                                                                                                                                                                                                                                                                                        1858
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1951
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1978
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2011
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CCACTGAGGAGGAGGCTGTGCTGAGTTTGTGTGGCTGGAATCTCTGGGTAAGGAACTTAA 1618
                                                                                                                                                                                                AGAACAAAAATCATCTGGGTAATTCTTTCCTAGAAGGATCACAGCCCCTGGGATTCCAAGG 1678
                                                              AATCGAGCTCTGCTGCTTGGTTGTAGTAGTGATCAGGAAACAGATCTCAGCAAAG 1558
                                                                                                                                                                                                                    1652 AGAACAAAAATCATCTGGTAATTCTTTCCTAGAAGGATCACAGCCCCTGGGATTCCAAGG 1711
                                                                                                                                                                                                                                                                                        GCTGTTTTAAGCCACCAAGGATAATTGGTTACAGCAGCTCTAGGAAACTAATACAGCTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2192 TAAAAIGATCCCTGTCTCCTCGTGTTACATTCTGTGTGTGTCCCCTCCCCACAATGTACC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAAGTTGTCTTTGTGACCCAATAGAATATGGCAGAAGTGATGGCATGCCACTTCCAAGAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CTCTGCTGAAACCTTAATCTCAGACTTCCAGCCTCCTGAACGAAGAAAAAATTTCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TAAAATGATCCCTGTCTCGTGTTTACATTCTGTGTGTGTCCCCTCCCACAATGTACC
                                                                                                                                                                                                                                                                                                                                                                     1772 ACAICCTICITGGAATCICAGICTGAGTTTATTIGGAGATAAGGICTCTGCAGATGA
                                                                                                                                                                                                                                                                                                                                                                                                      GTTAGTTAAGACAAGGTCATGCTGGATGAAGGTAGACCTAAAATTCAATATGACTGGTTTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CTTGTATGAAAAGGAGAGACACAGAGACAGAGGAGACGCGGGGAAGACTATGTAAAGAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ATCAGAAGCTTGGAAGAGGCAAAGAATTCTTCCCTAGAGGCTTTAGAGGGATAACGG
                                                                                                                                                                                                                                                                                                                                                                                                                                       1832 GTTAGTTTAAGACAAGGTCATGCTGGATGAAGGTAGACCTAAATTCAATATGACTGGTTTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GAAGGCAGAGATCGGAGTTTTGCAGCCACAAGCTAAGAAACACCAAAGATTGTGGGCAACC
                                                                                                                                                                                                                                                                      CTAACTIGITAIGCAGCAAIAGATAAAIAATATGCAGAGAAAGAGA 2563
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2518
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2252
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2339
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2371
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2399
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2459
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2159
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2219
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2279
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2311
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2132
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1892
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1919
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1952
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1979
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2012
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2039
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2072
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2099
                                                                                                                                                                                                                                                                                                                                             1739
                                                                                                                                                                                                                                                                                                                                                                                                                 1799
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1859
                                                                         1499
                                                                                                         1532
                                                                                                                                           1559
                                                                                                                                                                                                           1619
                                                                                                                                                                                                                                                                             1679
                                       1472
```

5,

92

480

g

임 <u>ک</u> ۾

6 B 6 B 6 B 6

8 8

g

8 ò 8 8 8

8 S ద ò

452

392 420

212 240

1559 CCACTGAGGAGGCTGTGCTGAGTTTGTGTGTGGGAATCTCTGGGTAAGGAACTTAA  1592 CCACTGAGGAGGAGGCTGTGCTGAGTTGTGTGGGCTGGAATCTCTGGGTAAGGAACTTAA  1619 AGAACAAAAATCATCTGGCTAATCTTTCCTAGAAGGATCTCTGGGTAAGGAATCTCAAGG  1679 CATTGGATCCAGTCTCTAAGAAGGCTGCTGAGATCACAGCCCCTGGGATTCCAAGG  1679 CATTGGATCCAGTCTCTAAGAAGGCTGCTGTAACTGGTTGCACCCCTCAAATTC  1679 CATTGGATCCAGTCTCTAAGAAGGCTGCTGTACTGGTTGAATTCTTCCAAGTCTCCAAGTCTCCAAATTC  1679 CATTGGATCCAGTCTCTAAGAAGGCTGCTGTACTGGTTGAATTCTTTCCAAGTCTCCCCTCAAATTCTTTCCAAGTCTCCCCTCAAATTCTTTCCAAGTCTCCCCTCAAATTCTTTCCAAGTCTCCCCTCAAATTCTTTCCAACTCCCCTCAAATTCTTTCTTTTTT	1712 CATTGGATCTCTAAGAAGGTGCTGTACTGGTTGAATTGTGTCCCCCTCAAATTC 1739 ACATCCTTCTTGGAATCTCAGTCTGTGAGTTTATTTGGAGATAAGGTCTGCAGATGTA 1772 ACATCCTTCTTGGAATCTCAGTCTGTGAGTTTATTTGGAGATAAGGTCTCTGCAGATGTA 1772 ACATCCTTCTTGGAATCTCAGTCTGTGAGTTTATTTGGAGTCTCTGCAGATGTA 1799 GTTAGTTAAGACAAGGTCATGCTGGATGAAGGTAACCTAAATTCAATATGACTGTTC 111111111111111111111111111111111	1912 CITCITICIANG ANG AGAGACA CAGAGACA CAGACA CAGACACA CAGACACACAC	2012 CLIGATION CLIMATE CONTROLL CANCELL CANCER CONTROLL CANCEL CANCER CONTROLL CANCEL	2252 2279 2311 2339 2371	2431 2459 2491 2518 2551
453 TCAGACTCACCCAGCTTCCCGAGAATGGTGGCTGGAATGCCCCCATCACAGACTTCTACT 512  481 TCCAGCAGTGTGACTAGGGCAACGTGCCCCCCGAGACTTCCTGGCAGACTCTGG 540	691 720 751 780 811	900 931 960 991	1051 1079 1111 1139 1171	ATCAAAATCCCAGATGCTGGTCTCTATTCCCATGAAAAGTGCTCATGACATTTTTAATTTTAAAAGGTGCTCATGAGAAAGTGGGTGTTTTTTTT	GTGGCAGTATAGGTGATTTTCTTTTAATTCTGTTAATTTTCTGTATTTTTTTT

```
1139
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1258
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1318
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1378
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1438
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1019
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1079
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1171
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1231
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1291
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1411
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AGAGCAGACATCATCTCTGATTGTCCTCAGCCTCCAATTCCCAGGGTAAATTCAAATTG 1498
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1051
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    540
                                                                              600
                                                                                                           631
                                                                                                                                          99
                                                                                                                                                                         691
                                                                                                                                                                                                       720
                                                                                                                                                                                                                                     751
                                                                                                                                                                                                                                                                    780
                                                                                                                                                                                                                                                                                                 811
                                                                                                                                                                                                                                                                                                                                840
                                                                                                                                                                                                                                                                                                                                                             871
                                                                                                                                                                                                                                                                                                                                                                                            900
                                                                                                                                                                                                                                                                                                                                                                                                                           931
                                                                                                                                                                                                                                                                                                                                                                                                                                                          960
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       991
                                               571
                                                                                                                                                                                                                                                                                                                                                                                                                                                      TCTTCCCTCATCATCTTGTTGTGGGCATGAGGAGGTGGTGATGTCAGAAGAAATGGTTCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1052 TCTTCCCTCATCATCTTGTTGTGGGCATGAGGAGGTGGTGATGTCAGAAGAAATGGCTCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GACCTACTACAAAGTGGCATATA-TTGCAATTTATTTTAATTAAAAGATACCTATTAAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GIGGCAGIATAGGIGATITITCITITAATICIGITAATITITICIGAATITITI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CTACAATGAAGATGAATTCCTTGTATAAAATAAGAAAAGAAATTAATCTTGAGGTAAGC
                                     CAGGICTGACTTAGTGGGCACCTGACCACTTTGTCTTCTGGTTCCCCAGTTTGCATAAATT
                                                                                                                                                                                                                                                                                     GTGGGGGAGTGCTGCGAATCATTCCTGCTTAATGGTAACTGACAAGTGTTACCCTGAGCC
                                                                                                                                                                                                                                                                                                                                              CCGCAGCCCAACCCAGTTGAGCCTTATAGGGTCAGTAGCTCTCCACATGAAGTC
                                                                                                                                                                                                                                                                                                                                                                                                            CGGAGGCCAACCCATCCCCAGTTGAGCCTTATAGGGTCAGTAGCTCTCCACATGAAGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AGCTCAGAAGATAAAAGATAAGGGTATGCTGATCCTCTTTTAAAAACCCAAGATACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ATCAAAATCCCAGATGCTGTCTCTATTCCCATGAAAAAGTGCTCATGACATATTGAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ATATITCTTTATAGAAAAAGTCTGGAAGAGTTTACTTCAATTGTAGCAATGTCAGGGTG
                                                                               GTGAGGGGTGAGTGGAGGAGCCCATGGCGGACAATCACTTTTTTTGGCTCTCTCAGGACCCC
                                                                                                                                                            CACGTCTGACTTAGTGGGCACCTGACCACTTTGTCTTCTGGTTCCCAGTTTGGATAAATT
                                                                                                                                                                                                       CTGAGATTTGGAGCTCCAGGGTCCTCCCCCACTGGATGGTGCTACTGCTGTGGAAC
                                                                                                                                                                                                                        CTTGTAAAAACCATGGGGGTAAACTGGGAATAACATGAAAAAGATTTCTGTGGGGGGTGGG
                                                                                                                                                                            632 (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1020
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1112
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1172
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1259
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1292
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1319
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1352
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1379
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1412
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1439
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1472
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1532
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          932
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1080
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1232
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1499
                                                                                                                                                                                                                                                                                                      752
                                                                                                                                                                                                                                                                                                                                                                  812
                                                                                                                                                                                                                                                                                                                                                                                                 841
                                                                                                                                                                                                                                                                                                                                                                                                                              872
                                                                                                                                                                                                                                                                                                                                                                                                                                                           901
                      181
                                                                                  541
                                                                                                              572
                                                                                                                                               601
                                                                                                                                                                                                                                        692
                                                                                                                                                                                                                                                                                                                                   781
                                                                                                                                                                                                           661
                                                                                                                                                                                                                                                                       721
                                                                                                                                                                                                                                                                                                  원
                                                                                                                                                                                                                                                                                                                                                           ρp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               음
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Ś
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                       셤
                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                             셤
                                                                               Š
                                                                                                        ద
                                                                                                                                      ò
                                                                                                                                                                                                       8
                                                                    THEREOF
GENERAL INFORMATION:
APPLICANT: FOCA, JOHN
APPLICANT: FOCA, JOHN
APPLICANT: FOCA, JOHN
APPLICANT: POCA, JOHN
TITLE OF INVENTION: A NOVEL INTERLEUKIN-I RECEPTOR ANTAGONIST AND USES THERE
FILE REFERENCE: 28110/36010
CURRENT APPLICATION NUMBER: US/09/457,626
CURRENT APPLICATION NUMBER: US 09/417,455
BARLIER FILING DATE: 1999-10-13
BARLIER PILING DATE: 1999-00-07
BARLIER PILING DATE: 1999-00-07
BARLIER PILING DATE: 1999-01-13
BARLIER PILING DATE: 1999-01-13
BARLIER FILING DATE: 1999-01-13
BARLIER PILING DATE: 1999-01-13
BARLIER PILING DATE: 1998-01-13
BARLIER PILING DATE: 1998-05-10
BARLIER PILING DATE: 1998-06-19
BARLIER PILING DATE: 1998-06-19
BARLIER PILING DATE: 1998-06-19
BARLIER PILING DATE: 1998-05-10
BARLIER PILING DATE: 1998-06-19
BARLIER PILING DATE: 1998-05-10
BARLIER PILING DATE: 1998-06-19
BARLIER PILING DATE: 1998-06-15
BARLIER PILING DATE: 1998-06-16
BARLIER PILING DATE: 1998-06
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              152
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         212
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     272
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GGGTGGGGCAGGAGCCGACTCTAACACTAGAGCCAGTGAACATCATGGAGCTCTATCTTG 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    332
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             452
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          453 TCAGACTCACCCAGCTTCCCGAGAATGGTGGCTGGAATGCCCCCATCACAGACTTCTACT 512
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               92
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ATGCCAGCCTGTCCCCCCGTCATCCTGGGTGTCCAGGGTGGAAGCCAGTGCCTGTCATGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ATGCCAGCCTGTCCCCCGTCATCCTGGGTGTCCAGGTGGAAGCCAGTGCCTGTCATGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TCGAGTCGCTGCCTACCCGGGCTGGTTCCTGTGCACGGTGCCTGAAGCCGATCAGCCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TCGAGTCGGCTGCCTACCCGGGCTGGTTCCTGTGCACGGTGCCTGAAGCCGATCAGCCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TCAGACTCACCCAGCTTCCCGAGAATGGTGGCTGGAATGCCCCCATCACAGACTTCTACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TGAAGGACTCGGCATTGAAGGTGCTTTATCTGCATAATAACCAGCTTCTAGCTGGAGGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                93 TGAAGGACTCGGCATTGAAGGTGCTTTATCTGCATAATAACCAGCTTCTAGCTGGAGGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TGCATGCAGGGAAGGTCATTAAAGGTGAAGAGATCAGCGTGGTCCCCCAATCGGTGGCTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GTGCCAAGGAATCCAAGAGCTTCACCTTCTACCGGCGGGACATGGGGGCTCACCTCCAGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AGGGGAGTCTACACCCTGTGGAGCTCAAGATGGTCCTGAGTGGGGCGCTGTGCTTCCGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    5,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 2648;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      11; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DB 3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             97.1%; Scc. No. v, 99.4%; Pred. No. v, o, Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local Similarity 99.4
Matches 2550; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           , ORGANISM: Homo sapiens
US-09-457-626-6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                393
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        213
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      273
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  333
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               421
```

g

ò

d

8

a

8

6 8 6 8 6

& 8<sub>/</sub>

음 상 음

g

셤

8

셤 ઠે

Š

ద

8ે

ò

g

g

ò

셤

ઠે g ò

ઠે

셤

셤

ò

셤

ò

ò

셤 ò g g

ð

g ∂ 셤

ò

```
THEREOF
APPLICANT: Ford, John
APPLICANT: Ford, John
APPLICANT: Ford, John
APPLICANT: Ho, Alice Suk-Yue
APPLICANT: Pace, Ann
TITLE OF INVENTION: A NOVEL INTERLEUKIN-1 RECEPTOR ANTAGONIST AND USES THERE
FILE OF INVENTION NUMBER: US/09/576,008
CURRENT APPLICATION NUMBER: US/000-32.0
PRIOR PILLING DATE: 2000-03-10
PRIOR PILLING DATE: 1999-10-13
PRIOR APPLICATION NUMBER: US/09/427,626
PRIOR PILLING DATE: 1999-10-13
PRIOR PILLING DATE: 1999-00-05
PRIOR FILLING DATE: 1999-00-05
PRIOR FILING DATE: 1999-01-13
PRIOR APPLICATION NUMBER: US/09/223,531
PRIOR PILLING DATE: 1999-01-13
PRIOR APPLICATION NUMBER: US/09/09,818
PRIOR FILING DATE: 1998-01-13
PRIOR PILLING DATE: 1998-02-17
PRIOR PILLING DATE: 1998-04-03
PRIOR FILING DATE: 1998-04-03
PRIOR FILING DATE: 1998-04-03
PRIOR PILLING DATE: 1998-04-03
NUMBER OF SEQ ID NOS: 30
PRIOR PILLING DATE: 1998-04-03
PRIOR PILLING 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       152
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               212
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       272
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      392
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               92
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              33 AGGGGAGTCTACACCCTGTGGGGGCTCAAGATGGTCCTGAGTGGGGGCGCTTCCGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TGCATGCAGGGAAGGTCATTAAAGGTGAAGAGATCAGCGTGGTCCCCAATCGGTGGCTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ATGCCAGCCTGTCCCCCGTCATCCTGGGTGTCCAGGGTGGAAGCCAGTGCCTGTCATGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TGCATGCAGGGAAGGTCATTAAAGGTGAAGAGATCAGCGTGGTCCCCAATCGGTGGCTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GGGTGGGGCAGGAGCCGACTCTAACACTAGAGCCAGTGAACATCATGGAGCTCTATCTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GTGCCAAGGAATCCAAGAGCTTCACCTTCTACCGGCGGGACATGGGGCTCACCTCCAGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ATGCCAGCCTGTCCCCCGTCATCCTGGGTGTCCAGGGTGGAAGCCAGTGCCTGTCATGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GTGCCAAGGAATCCAAGAGCTTCACCTTCTACCGGCGGACATGGGGCTCACCTCCAGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DB 4; Length 2648;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 AGGGGAGTCTACACCCTGTGGAGCTCAAGATGGTCCTGAGTGGGCGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           11;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match 97.1%; Score 2488.4; Best Local Similarity 99.4%; Pred. No. 0; Matches 2550; Conservative 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TYPE: DNA
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-09-576-008-6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             153
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       213
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             273
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      333
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            음
상
음
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2218
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2338
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2370
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2458
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2158
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2398
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2490
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2550
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2131
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2251
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2310
           AGAACAAAAATCATCTGGTAATTCTTTCCTAGAAGGATCACAGCCCCCTGGGATTCCAAGG
                                                                                                                                                                                                                 CATTGGATCCAGTCTCTAAGAAGGCTGCTGTACTGGTTGAATTGTGTCCCCCTCAAATTC
                                                                                                                                                                                                                                                                             ACATCCTTCTTGGAATCTCAGTCTGTGAGTTTATTTGGAGATAAGGTCTCTGCAGATGTA
                                                                                                                                                                                                                                                                                                       ACATCCTTCTTGGAATCTCAGTCTGTGAGTTTATTTGGAGATAAGGTCTCTGCAGATGTA
                                                                                                                                                                                                                                                                                                                                                                                               GTTAGTTAAGACAAGGTCATGCTGGATGAAGGTAGACCTAAATTTCAATATGACTGTTTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CTTGTATGAAAAGGAGAGAGACACACAGAGACAGAGGAGAACGAGGGGAAGACTATGTAAAGAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2132 GCTGTTTTAAGCCACCAAGGATAATTGGTTACAGCAGCTCTAGGAAACTAATACAGCTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CATTGGATCCCAGTCTCTAAGAAGGCTGCTGTACTGGTTGAATTGTGTCCCCCTCAAATTC
                                                                                                                                                                                                                                                                                                                                                                     GITAGITAAGACAAGGICATGCIGGATGAAGGIAGACCIAAAATICAATAIGACIGGITIC
                                                                                                                                                                                                                                                                                                                                                                                                                                                              CTTGTATGAAAAGGAGACACAGAGACAGAGAGAGGAGGGGGGAAAGATGTAAAAGAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GAAGGCAGAGATCGGAGTTTTGCAGCCACAAGCTAAGAAACACCAAGGATTGTGGCAACC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GAAGGCAGAGAGATCTTGCAGCCACAAGCTAAGAAACACACCAAGGATTGTGGCAACC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ATCAGAAGCTTGGAAGAGGCAAAGAATTCTTCCCTAGAGGCTTTAGAGGGATAACGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ATCAGAAGCTTGGAAGAGGCAAAGAAGAATTCTTCCCTAGAGGGCTTTAGAGGGATAACGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CTCTGCTGAAACCTTAATCTCAGACTTCCAGCCTCCTGAACGAAGAAGAATAAATTTCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GCIGITITIAAGCCACCAAGGATAATTGGTTACAGCAGCTCTAGGAAACTAATACAGCTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAAGTTGTCTTTGTGACCCAATAGAATATGGCAGAAGTGATGGCATGCCACTTCCAAGAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ATAAAGAGACTTACGTGGTAAAAATGAAGTCTCCTGCCCACAGCCACATTAGTGAACCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2431 ATAAAGAGACTTACGTGGTAAAAATGAAGTCTCCTGCCCACAGCCACATTAGTGAACCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AGAAGCAGAGACTCTGTGAGATAATCGATGTTTGTTGTTTT-AAGTTGCTCAGTTTTGGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CTAACTTGTTATGCAGCAATAGATAAATAATATGCAGAGAAAGAGA 2563
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CTAACTTGTTATGCAGCAATAGATAAATATGCAGAGAAAGAGA
                                                                                                                                             1652
                                                                                                                                                                                         1679
                                                                                                                                                                                                                                   1712
                                                                                                                                                                                                                                                                               1739
                                                                                                                                                                                                                                                                                                                         1772
                                                                                                                                                                                                                                                                                                                                                                                                               1832
                                                                                                                                                                                                                                                                                                                                                                                                                                                              1859
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1892
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1919
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1952
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1979
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2012
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2072
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2219
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2279
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2311
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2371
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2399
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2459
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2491
             1559
                                                                                                   1619
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2039
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2099
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2159
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2339
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2518
                                                          1592
                                                                                                                                                                                                                                                                                                                                                                        1799
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2252
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2551
                                                                                                                                                                                                                                                                                                                  g
```

452

TCGAGTCGGCTGCCTACCCGGGCTGGTTCCTGTGCACGGTGCCTGAAGCCGATCAGCCTG

TCGAGTCGGCTGCCTACCCGGGCTGGTTCCTGTGCACGGTGCCTGAAGCCGATCAGCCTG

361

393

g ò

Sequence 6, Application US/09576008 Patent No. 6541623

RESULT 5 US-09-576-008-6

15.9 ANTICOLOCICICOCOCICIONA CONTROLLO DE CO
B & B & B & B & B & B & B & B & B & B &
411 TCGACTCACCAGCTTCCCGAGANTGCTGCAATGCCCCCACACACACTCACT 412 TCGACTCACCCAGCTTCCCGAGANTGCTGCAATGCCCCCCACACACACTCACT 413 TCGACCTCACTCACTCACTCACTCACTCACTCACTCACTC

780

912

972

```
852
                                                                                                                                                                               1092
                                                                                                                                                                                                  1019
                                                                                                                                                                                                                      1152
                                                                                                                                                                                                                                         1079
                                                                                                                                                                                                                                                             1212
                                                                                                                                                                                                                                                                                 1139
                                                                                                                                                                                                                                                                                                     1272
                                                                                                                                                                                                                                                                                                                       1199
                                                                                                                                                                                                                                                                                                                                           1332
                                                                                                                                                                                                                                                                                                                                                                                                      1318
                                                                                                                                                                                                                                                                                                                                                                                                                         1452
                                                                                                                                                                                                                                                                                                                                                                                                                                             1378
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1512
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1438
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1572
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1498
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1632
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1692
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1618
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1752
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1678
                                                                                                                                CCGCAGCCCAACCCATCCCCAGTTGAGCTTATAGGGTCAGTAGCTCTCCCAACAAGTC 1032
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AATCGAGCTCTGCTGCTCTGGTTGGTTGTAGTAGTGATCAGGAAACAGATCTCAGCAAAG 1558
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1738
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1739 ACATCCTTCTTGGAATCTCAGTCTGTGAGTTTATTTGGAGATAAGGTCTCTGCAGATGTA 1798
                                                                              840
                                                                                                                    900
                                                                                                                                                                                                  1393 ATATITCTITATAGAAAAAAGTCTGGAAGAGITIACTICAAITGTAGCAAIGICAGGGG
CTGAGATTTGGAGCTCAGTCCAGGGTCCTCCCCCACTGGATGGTGCTACTGCTGTGGAAC
                                              CTTGTAAAACCATGTGGGGGTAAACTGGGAATAACATGAAAAGATTTCTGTGGGGGTGGG
                                                                             TCTTCCCTCATCATCTTGTTGTGGCCATGAGGAGGTGGTGATGTCAGAAGAAATGGTTCG
                                                                                                                                                                                                                                                                                                                      AGAACAAAAATCATCTGGTAATTCTTTCCTAGAAGGATCACAGCCCCTGGGATTCCAAGG
                                                                                                                                                                                                                                                     1153 TCTTCCCTCATCATCTTGTGGGCCATGAGGAGGTGGTGATGTCAGAAAATGGCTCG
                                                                                                                                                                                                                                                                                 AGCTCAGAAGATAAAAGATAAGTAGGGTATGCTGATCCTCTTTTAAAAACCCAAGATACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CTACAATGAAGATGAATTCCTTGTATAAAAATAAGAAAAGAAATTAATCTTGAGGTAAGC
                                       CTTGTAAAAACCATGTGGGGTAAACTGGGAATAACATGAAAAAGATTTCTGTGGGGGTGGG
                                                                                                                     CCGCAGGCCAACCCATCCCCAGTTGAGCCTTATAGGGTCAGTAGCTCTCCACATGAAGTC
                                                                                                                                                                      CTGTCACTCACCACCTGTGCAGGAGGAGGTGGTCATAGAGTCAGGGATCTATGGCCCT
                                                                                                                                                                                                                                                                                           GACCTACTACAAAGTGGCATATA-TTGCAATTTATTTTAATTAAAAGATACCTATTAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CATTGGATCCAGTCTCTAAGAAGGCTGCTGTACTGGTTGAATTGTGTCCCCCCCAAATTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CTCTCACTCACCACCACTGTGCAGGAGGAGGTGGTCATAGAGTCAGGGATCTATGGCCCT
                                                                                                                                                                                                                                                                                                                                                                                                      ATATTTCTTTATAGAAAAAGTCTGGAAGAGTTTACTTCAATTGTAGCAATGTCAGGGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CTACAATGAAGATGAATTCCTTGTATAAAATAAGAAAAGAAATTAATCTTGAGGTAAGC
                                                                                                  913
                                                                                                                                        973
                                                                                                                                                                                                                                                                                 1080
                                                                                                                                                                                                                                                                                                     1213
                                                                                                                                                                                                                                                                                                                                                                                   1333
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1513
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1573
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1619
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1753
                                                          853
                                                                                                                                                                                1033
                                                                                                                                                                                                                       1093
                                                                                                                                                                                                                                          1020
                                                                                                                                                                                                                                                                                                                                                                1200
                                                                                                                                                                                                                                                                                                                                                                                                       1259
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1379
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1439
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1499
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1633
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1559
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1693
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1679
 661
                    793
                                       721
                                                                              781
                                                                                                                     841
                                                                                                                                                             106
                                                                                                                                                                                                    961
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1813
                                $ g
                                                                                               셤
                                                                                                                                    g
                                                                                                                                                                            셤
                                                                                                                                                                                                                  ద
                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                a
                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  엄
                                                                             8
                                                                                                                   ò
                                                                                                                                                           ò
                                                                                                                                                                                            ઠ
                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                         ઠે
                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                            Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g &
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠે
              Sequence 956, Application US/09949016

Sequence 956, Application US/09949016

Patent No. 6812339

GENERAL INFORMATION:

APPLICATION VENTER, J. Craig et al.

TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF

TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF

TILE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF

CURRENT APPLICATION NUMBER: 00/24/1/75

PRIOR APPLICATION NUMBER: 60/241,755

PRIOR APPLICATION NUMBER: 60/231,768

PRIOR PELING DATE: 2000-10-03

PRIOR PELING DATE: 2000-10-03

PRIOR PELING DATE: 2000-09-08

NUMBER OF SEQ ID NOS: 207012

SEQ ID NO 956

LENGTH: 2720
                                                                                                                                                                                                                                                                        ŝ
                                                                                                                                                                                                                                                                                                              193
                                                                                                                                                                                                                                                                                                                                  120
                                                                                                                                                                                                                                                                                                                                                     253
                                                                                                                                                                                                                                                                                                                                                                         180
                                                                                                                                                                                                                                                                                                                                                                                             313
                                                                                                                                                                                                                                                                                                                                                                                                                 240
                                                                                                                                                                                                                                                                                                                                                                                                                                    373
                                                                                                                                                                                                                                                                                                                                                                                                                                                        300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            433
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  493
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          553
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                613
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       672
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              732
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  099
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     792
                                                                                                                                                                                                                                                                                           9
                                                                                                                                                                                                                                                                                                     314 ATGCCAGCCTGTCCCCGTCATCCTGGGTGTCCAGGGTGGAAGCCAGTGCTGTCATGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                       TCAGACTCACCCAGCTTCCCGAGAATGGTGGCTGGAATGCCCCCATCACAGCTTCTACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GTGAGGGGTGAGTGGAGGAGACCCATGGCGGACAATCACTCTTCTGCTCTCAGGACCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TGCATGCAGGGAAGGTCATTAAAGGTGAAGAATCAGCGTGGTCCCCCAATCGGTGGCTGG
                                                                                                                                                                                                                                                                                                                                                                                                                 ATGCCAGCCTGTCCCCCGTCATCCTGGGTGTCCAGGGTGGAAGCCAGTGCCTGTCATGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GTGCCAAGGAATCCAAGAGCTTCACCTTCTACCGGCGGGCACATGGGGGCTCACCTCCAGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GTGCCAAGGAATCCAAGAGCTTCACCTTCTACCGGCGGGACATGGGGCTCACCTCCAGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TCGAGTCGGCTGCCTACCCGGGCTGGTTCCTGTGCACGGTGCCTGAAGCCGATCAGCCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TCAGACTCACCCAGCTTCCCGAGAATGGTGGCTGGAATGCCCCCCATCACAGACTTCTACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TCCAGCAGTGTGACTAGGGCAACGTGCCCCCCAGAACTCCCTGGGCAGAGCCAGGCTCGG
                                                                                                                                                                                                                                                                                                                                  TGAAGGACTCGGCATTGAAGGTGCTTTATCTGCATAATAACCAGCTTCTAGCTGGAGGGC
                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                       2
                                                                                                                                                                                                                                                     DB 4; Length 2720
                                                                                                                                                                                                                                                    Score 2488.4; DB 4; Length
Pred. No. 0;
0; Mismatches 11; Indels
                                                                                                                                                                                                                                                    Query Match
Best Local Similarity 99.4%;
Matches 2550; Conservative (
                                                                                                                                                                                                            ; TYPE: DNA
; ORGANISM: Human
US-09-949-016-956
RESULT 6
US-09-949-016-956
                                                                                                                                                                                                                                                                                                               134
                                                                                                                                                                                                                                                                                           -
                                                                                                                                                                                                                                                                                                                                                                                             254
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          374
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     733
                                                                                                                                                                                                                                                                                                                                  19
                                                                                                                                                                                                                                                                                                                                                                         121
                                                                                                                                                                                                                                                                                                                                                                                                                181
                                                                                                                                                                                                                                                                                                                                                                                                                                                        241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  434
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         494
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 554
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       614
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              673
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  601
                                                                                                                                                                                                                                                                                                                                                                                                                               쉽
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                           ያ ያ
                                                                                                                                                                                                                                                                                                                                                                  중 점
                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      쉽
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  중 유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           8 & B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   8 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           જે
                                                                                                                                                                                                                                                                                           ઠે
                                                                                                                                                                                                                                                                                                                                                                                                         &
```

음

요 요 ò

8 & 8

8 6 8 6

Dp

ઠે

a

ò

g

ò 셤

셤 ò

ò g ઠે g ò 셤

ò

```
5403
                                                                                                                                                                                                                                                                    5463
                                                                                                                                                                                                                                                                                                                            5523
                                                                                                                                                                                                                                                                                                                                                                                 5582
                                                                                                                                                                                                                                                                                                                                                                                                                                        5642
                                                                                                                                                      ω
;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             5702
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TIGICTICIGGITCCCAGITIGGATAAAITCTGAGATTIGGAGCTCAGGCCACGGICCTC 5762
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            5822
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  5882
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         5942
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                6002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      6062
                                                                                                                                                                                  330
                                                                                                                                                                                                                                         390
                                                                                                                                                                                                                                                                                                450
                                                                                                                                                                                                                                                                                                                                                     510
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        810
                                                                                                                                                                                                                                                                                                                                                                                                             570
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    630
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          690
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 750
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             870
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     930
                                                                                                                                                                                             GACAATCACTCTTTCTGCTCTCAGGACCCCCAGGTCTGACTTAGTGGGCACCTGACCACT
                                                                                                                                                                                                                                                     271 AGCCAGTGAACATCATGGAGCTCTATCTTGGTGCCAAGGAATCCAAGAGCTTCACCTTCT
                                                                                                                                                                                                                                     331 ACCGGCGGGACATGGGGCTCACCTCCAGCTTCGAGTCGGCTGCCTACCCGGGCTGGTTCC
                                                                                                                                                                                                                                                                                           TGTGCACGGTGCCTGAAGCCGATCAGCCTGTCAGACTCACCCAGCTTCCCGAGAATGGTG
                                                                                                                                                                                                                                                                                                                                                   GCTGGAATGCCCCCATCACAGACTTCTACTTCCAGCAGTGTGACTAGGGCAACGTGCCCC
                                                                                                                                                                                                                                                                                                                                                                    CCCAGAACTICCCTGGGCAGAGCCCAGCTCGGGTGAGGGGTGAGTGGAGGAGACCCATGGCG
                                                                                                                                                                                                                                                                                                                                                                                                                                     cccagaacrcccridedcagagccagcrcdgdrgageggagrcgagagagccargegg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CCCCACTGGATGGTGCTACTGCTGTGGAACCTTGTAAAAACCATGTGGGGTAAACTGGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GTGGTCATAGAGTCAGGGATCTATGGCCCTTGGCCCAGCCCCAGCCCCCTTCCCTTTAATC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TIGICITICIGGITCCCAGITIGCATAAATTCTGAGATTTGGAGCTCAGGGGTCCTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CCCCACTGGATGGTGCTACTGCTGTGGAACCTTGTAAAAACCATGTGGGGTAAACTGGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AATGGTAACTGACAAGTGTTACCTGAGCCCGCAGGCCAACCCATCCCCAGTTGAGCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AATGGTAACTGACAAGTGTTACCCTGAGCCCCGCAGGCCAACCCATCCCCAGTTGAGCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CTGCCACTGTCATATGCTACCTTTCCTATCTTCCCTCATCATGTTGTGGGCATGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GGAGGTGGTGATGTCAGAAGAAAGGTTCGAGCTCAGAAGATAAAAGATAAGTAGGGTÄT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GTGGTCATAGAGTCAGGGATCTATGGCCCTTGGCCCCAGCCCCACCCCTTCCCTTT-ATC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CTGCCACTGTCATATGCTACCTTTCCTATCTCTTCCTTCATCATGTTGTGGGCATGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1170 CATGAAAAAGTGCTCATGACATATTGAGAAGACCTACTTACAAAGTGGCATATATTGCAA
                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GCTGATCCTCTTTAAAAACCCAAGATACAATCAAAATCCCAGATGCTGGTCTCTATTCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GCTGATCCTCTTTTAAAAACCCAAGATACAATCAAAATCCCAGATGCTGGTCTCTATTCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           3,
                                                                                                                            Length 9634;
                                                                                                                                                     8; Indels
                                                                                                                            DB 4;
                                                                                                                         Score 2245.2;
Pred. No. 0;
0; Mismatches
                          4.0
          207012
Windows Version
                                                                                                                       87.6%;
                                                                                                                    Query Match
Best Local Similarity 99.5°
Matches 2283; Conservative
        SEQ ID NOS:
FastSEQ for
                                                               TYPE: DNA ORGANISM: Human US-09-949-016-12698
        NUMBER OF SEQ II
SOFTWARE: FastSI
SEQ ID NO 12698
LENGTH: 9634
                                                                                                                                                                                                                                                                 5404
                                                                                                                                                                                                                                                                                                                       5464
                                                                                                                                                                                                                                                                                                                                                                                                                                     5583
                                                                                                                                                                                                                                                                                             391
                                                                                                                                                                                                                                                                                                                                                   451
                                                                                                                                                                                                                                                                                                                                                                                                          511
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           5643
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      631
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                5703
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         5763
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               5823
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      5883
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 571
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     751
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             5943
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          6909
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1050
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 6123
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1110
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       6183
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              691
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          811
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  871
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         931
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   6003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               990
                                                                                                                                                                              à
                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                          8
                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            8 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            6666
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 12698, Application US/09949016
Patent No. 6812339
GENERAL INFORMATION:
GENERAL INFORMATION:
GENERAL INFORMATION:
TITLE OF INVENTION:
WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF CURRENT FILING DATE:
CURRENT PAPLICATION NUMBER: US/09/949,016
FILE REFERENCE: CLOOL307
CURRENT PALING DATE: 2000-04-14
PRIOR FILING DATE: 2000-10-20
PRIOR FILING DATE: 2000-10-30
PRIOR FILING DATE: 2000-10-30
PRIOR FILING DATE: 2000-10-30
PRIOR FILING DATE: 2000-10-09-08
PRIOR FILING DATE: 2000-10-09-08
PRIOR FILING DATE: 2000-10-09-08
PRIOR FILING DATE: 2000-00-09-08
                                                                                                                                                                                                                                                                                                       2232
                                                                                                                                                                                                                                                                                                                                   2158
                                                                                                                                                                                                                                                                                                                                                                                                                                                2278
                                                            2218
                                                                                                                                                                                                                                                                                                                                                                                                    2338
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2398
                                                                                                                                                                                                                                                                                                                                                               2292
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2411
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2471
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2531
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2458
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2517
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2651
CTTGTATGAAAAGGAGAGACACAGAGACAGAGGAGACGCGGGGAAGACTATGTAAAGAT
                                                                                                                      CTTGTATGAAAAGGAGAGGACACAGAGACAGAGGAGGAGCGGGGGAAGACTATGTAAAGAT
                                                                                                                                                         GAAGGCAGAGATCGGAGTTTTGCAGCCACAAGCTAAGAAACACCAAGGATTGTGGCAACC
                                                                                                                                                                              GAAGGCAGAGATGTTTGCAGCCACAAGGTAAGAAACACCAAGGATTGTGGCAAACC
                                                                                                                                                                                                                                                                       CTCTGCTGAAACCTTAATCTCAGACTTCCAGCCTCCTGAACGAAGAAAAATTTCG
                                                                                                                                                                                                                                                                                                CTCTGCTGAAACCTTAATCTCAGACTTCCAGGCTCCTGAACGAAGAATAAATTTCG
                                                                                                                                                                                                                 ATCAGAAGCTTGGAAGAGGCAAAGAAGAATTCTTCCTTAGAGGCTTTAGAGGGATAACGG
                                                                                                                                                                                                                                         ATCAGAAGCTTGGAAGAGGCAAAGAATTCTTCCCTAGAGGCTTTAGAGGGATAACG
                                            GTTAGTTAAGACAAGGTCATGCTGGATGAAGGTAGACCTAAATTCAATATGACTGGTTTC
                                                                                                                                                                                                                                                                                                                                               GCTGTTTTAAGCCACCAAGGATAATTGGTTACAGCAGCTCTAGGAACTAATACAGCTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAAGTTGTCTTTGTGA-CCAATAGAATATGGCAGAAGTGATGGCATGCCACTTCCAAGAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GCTGTTTTAAGCCACCAAGGATAATTGGTTACAGCAGCTCTAGGAAACTAATACAGCTGC
                                                                                                                                                                                                                                                                                                                                                                                     AAAGTTGTCTTTGTGACCCAATAGAATATGGCAGAAGTGATGGCATGCCACTTCCAAGAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CCAATCTATCTTGGCTCACTCGCGCGGAAGCTAGCTGCCATGCTATGAGCAGGCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2472 CCAATCTATCTTGGCTCACTCGCTCTGGGGAAGCTAGCTGCCATGCTATGAGCAGGCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2532 ATARAGAGACTTACGTGGTAAAAATGAAGTCTCCTGCCCACAGCCACATTAGTGAACCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2592 AGAAGCAGAGACTCTGTGAGATAATCGATGTTTGTTGTTTTTAAAGTTGCTCAGTTTTTGGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ATAAAGAGACTTACGTGGTAAAAATGAAGTCTCCTGCCCACAGCCACATTAGTGAACCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AGAAGCAGAGACTCTGTGAGATAATCGATGTTTGTTGTTTT-AAGTTGCTCAGTTTTGGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CTAACTTGTTATGCAGCAATAGATAAATAATATGCAGAGAAAGAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 7
US-09-949-016-12698
                                                                      1933
                                                                                                  1859
                                                                                                                               1993
                                                                                                                                                                                                                                            2113
                                             1799
                                                                                                                                                           1919
                                                                                                                                                                                    2053
                                                                                                                                                                                                                 1979
                                                                                                                                                                                                                                                                        2039
                                                                                                                                                                                                                                                                                                   2173
                                                                                                                                                                                                                                                                                                                               2099
                                                                                                                                                                                                                                                                                                                                                           2233
                                                                                                                                                                                                                                                                                                                                                                                    2159
                                                                                                                                                                                                                                                                                                                                                                                                                2293
                                                                                                                                                                                                                                                                                                                                                                                                                                           2219
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2353
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2339
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2459
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2279
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                23.99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2518
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2652
```

Page 11

Db 7322 CAGAAGTGATGCCACTTCCAAGATTAGGTTATAAAAGACATGCACTTCTACTT 7381  Qy 2310 GAGCCTTCTCTCTCCCCCCCCCCAATCTATCTTGCTCACTCCCTCTGGGG 2369	RESULT 8  US-09-949-016-15227  Sequence 15227, Application US/09949016  Patent No. 6812339  GENERAL INFORMATION:  TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  FILE REFERENCE: CL001307  CURRENT APPLICATION NUMBER: 60/241,755  PRIOR APPLICATION NUMBER: 60/241,755  PRIOR PELING DATE: 2000-10-03  PRIOR FILING DATE: 2000-10-03  PRIOR FILING DATE: 2000-00-08  PRIOR FILING DATE: 2000-00-08  PRIOR FILING DATE: 2000-09-08  NUMBER OF SEQ ID NOS: 207012  SOFTWARE FASESEQ for Windows Version 4.0  LENGTH: 9641  TYPE: DAA	S S S S S S S S S S S S S S S S S S S
	1530 TAGTGATCAGGAAACCACAAGCCACTGAGGAGGAGGTGTGCTGAGTTTGTG   1590	6903 GINGACCHANATHCATAIGACTACHTTCHTGHANANGGALGACACAGALACAGA 6962  1890 AGGACCCHANATHCATAIGACTACHTTCHTGHANANGGALGACACAGALACAGACACAGALACAGACACAGACACAGACACAGACACACAGACACACAGAC

```
5823
                                                                                                                                             1049
                                                                                                                                                                            5883
                                                                                                                                                                                                            1109
                                                                                                                                                                                                                                                                             1169
                                                                                                                                                                                                                                                                                                            6003
                                                                                                                                                                                                                                                                                                                                            1229
                                                                                                                                                                                                                                                                                                                                                                             6063
                                                                                                                                                                                                                                                                                                                                                                                                           1289
                                                                                                                                                                                                                                                                                                                                                                                                                                             6123
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1349
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            6183
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1409
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             6243
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1469
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              6302
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1529
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             6362
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1589
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            6422
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1649
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             6482
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1709
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              6542
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1769
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               6602
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1829
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              6662
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1889
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1949
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2009
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               6782
                                                                            686
               930
                              CTGCCACTGTCATATGCTACCTTTCCTATCTCTCCTCATCATCTTGTTGTGGGCATGA
                                                                                                                                                                                                                                                                           6004 CATGAAAAAGTGCTCATGACATATTGAGAAGACCTACTTACAAAGTGGCATATATTGCAA
                                                                                                                                                                                                                                                                                                                                                                                                           TITATITITAAAAAGATACCTATITATATATTCTTTATAGAAAAAGTCTGGAAGAG
                                                                                                                                                                                                                                                                                                                                                                                                                              6064 TITATITIAATIAAAAGATACCIATITIATATATITCTITATAGAAAAAGTCTGGAAGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                6124 TTTACTTCAATTGTAGCAATGTCAGGGTGGTGGCAGTATAGGTGATTTTTTTAATTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TGTTAATTTATCTGTATTTCCTAATTTTTCTACAATGAAGATGAATTCCTTGTATAAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              6184 IGTTAATTTATCTGTATTTCCTAATTTTTCTACAATGAAGATGAATTCTTGTATAAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TAAGAAAAGAAATTAAATCTTGAGGTAAGCAGAGAGAGACATCATCTCTGATTGTCCTCAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               6244 TAAGAAAAGAAATTAATCTTGAGGTAAGCAGAGAGACATCATCTCTGATTG-CCTCAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1530 TAGTGATCAGGAAACAGATCTCAGCAAAGCCACTGAGGAGGAGGCTGTGCTGAGTTTGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TGGCTGGAATCTCTGGGTAAGGAACTTAAAGAACAAAAATCATCTGGTAATTCTTTCCTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GAAGGATCACAGCCCCTGGGATTCCAAGGCATTGGATCCAGTCTCTAAGAAGGCTGCTGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1710 ACTGGTTGAATTGTGTCCCCCTCAAATTCACATCCTTGTTGGAATCTCAGTCTGTGAGTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ACTGGTTGAATTGTGTCCCCCCCAAATTCACATCCTTCTTGGAATCTCAGTCTGGAGTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TATTTGGAGATAAGGTCTCTGCAGATGTAGTTAAGACAAGGTCATGCTGGATGAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  6603 TATTTGGAGATAAGGTCTCTGCAGATGTAGTTAGTTAAGACAAGGTCATGCTGGATGAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AGGAGACGCGGGGAAGACTATGTAAAGATGAAGGCAGAGATCGGAGTTTTGCAGCCACAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GCTAAGAAACACCAAGGATTGTGGCAACCATCAGAAGCTTGGAAGAGGCAAAGAAGTT
               CTGCCACTGTCATATGCTACCTTTCCTATCTCTTCCTCCTCATCATCTTGTGGGGCATGA
                                                                                                                                                                                                                                                                                                                                            CATGAAAAGTGCTCATGACATATTGAGAAGACCTACTTACAAAGTGGCATATATTGCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TITACITCAAITGTAGCAATGTCAGGGTGGTGGGTATAGGTGAITTTTTTAAITC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AGGAGACGCGGGGAAGACTATGTAAAGATGAAGGCAGAGATCGGAGTTTTTGCAGCCACAA
                                                                            GTGGTCATAGAGTCAGGGATCTATGGCCCTTGGCCCCAGCCCCCTTCCCTTT-ATC
                                                                                                                                                                                                            GGAGGTGGTGATGGAAGAAATGGTTCGAGCTCAGAAGATAAAAGATAAAGTAGGGTAT
                                                                                                                                                                                                                            GGAGGTGGTGATGTCAGAAGAAATGGCTCGAGCTCAGAAGATAAAAGATAAGTATA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1590
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 6423
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1650
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                6543
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1770
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1830
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        6663
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1890
                                                                                                                                                                               5824
                                                                                                                                                                                                                                                                                                                                              1170
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1290
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1410
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1470
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 6303
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 6483
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 6723
                                                                                                              5764
                                                                                                                                                                                                                1050
                                                                                                                                                                                                                                              5884
                                                                                                                                                                                                                                                                                                                                                                                                                1230
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1350
                                                                                                                                               990
               871
                                                                                931
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       슝. 염
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                       ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      임
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                à
                                     음 중 음
                                                                                                                                           ò
                                                                                                                                                                   8 8
                                                                                                                                                                                                                                      a
                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                8 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Ś
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  5164
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  5284
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                5403
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 5463
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 5523
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 5224
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 330
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  510
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 570
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  630
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 690
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  750
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   810
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  390
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 450
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                5105 AGCCAGTGAACATCATGGAGCTCTATCTTGGTGCCAAGGAATCCAAGAGCTTCACCTTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ACCGGCGGACATGGGGCTCACCTCCAGCTTCGAGTCGGCTGCCTACCCGGGCTGGTTCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  5225 TGTGCACGGTGCCTGAAGCCGATCAGCCTGTCAGACTCACCCAGCTTCCCGAGAATGGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CCCCACTGGATGGTGCTACTGCTGTGGAACCTTGTAAAAACCATGTGGGGTAAACTGGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GCTGGAATGCCCCCATCACACAGACTTCTACTTCCAGCAGTGTGACTAGGGCAACGTG-CCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ccchghacrcccrccchgccchgcrccgcrcaggrcangaggrcangarcccarggcc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GACAATCACTCTCTCTCTCTCAGGACCCCCACGTCTGACTTAGTGGGCACCTGACCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                5464 TIGITTICTGGTTCCCAGTTTGGATAAATTCTGAGATTTGGAGCTCAGTCCACGGTCCTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ACCGGCGGGACATGGGGCTCACCTCCAGCTTCGAGTCGGCTGCCTACCCGGGCTGGTTCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TGTGCACGGTGCCTGAAGCCGATCAGCCTGTCAGACTCACCCAGCTTCCCGAGAATGGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GCTGGAATGCCCCCATCACAGACTTCTACTTCCAGCAGTGTGACTAGGGCAACGTGCCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GACAATCACTCTTTCTGCTCTCAGGACCCCCAGGTCTGACTTAGTGGGCACCTGACCACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TTGTCTTCTGGTTCCCAGTTTGCATAATTCTGAGATTTGGAGGTCAGTCCAGGGTCCTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CCCCACTGGATGGTGCTACTGCTGTGGAACCTTGTAAAAACCATGTGGGGTAAACTGGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                271 AGCCAGTGAACATCATGGAGCTCTATCTTGGTGCCAAGGAATCCAAGAGCTTCACCTTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  .
.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 2220.4;
Pred. No. 0;
0; Mismatches
CURRENT FILING DATE: 1999-10-13
PRIOR APPLICATION NUMBER: US 09/348,942
PRIOR FILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 09/287,210
PRIOR PILING DATE: 1999-04-05
PRIOR PILING DATE: 1999-04-05
PRIOR PILING DATE: 1999-04-05
PRIOR FILING DATE: 1999-04-15
PRIOR FILING DATE: 1999-04-17
PRIOR PILING DATE: 1999-04-17
PRIOR FILING DATE: 1999-04-17
PRIOR FILING DATE: 1999-07-17
PRIOR FILING DATE: 1999-07-13
PRIOR FILING DATE: 1998-07-31
PRIOR FILING DATE: 1998-07-31
PRIOR FILING DATE: 1998-06-19
PRIOR FILING DATE: 1998-06-19
PRIOR FILING DATE: 1998-06-15
PRIOR FILING DATE: 1998-04-03
PRIOR PELLOR DATE: 1998-04-03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local Similarity 99.1%;
Matches 2274; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                 TYPE: DNA
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                  JENGTH: 7605
                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-09-417-455-8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   5165
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 511
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  5524
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 391
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  5285
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   5344
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    571
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    5404
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    631
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   5584
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     811
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    5644
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    451
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     691
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   751
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  331
```

g

ઠે

ઠે g 8 &

Dp

ઠે 점 장

8 8 8

g

ઠે

g

ઠે

ያ ያ

원 ò g ò g ò g ò 셤 ò g 8 g ò g ò g

```
1049
                                                                                                                                                                                                                                                                                                           5224
                                                                                                                                                                                                                                                                                                                                                                                                                                                     5343
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          5403
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 5643
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 5823
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        5883
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1109
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             5943
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1169
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  6003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1229
                                                                                                                                                                                                                                    5164
                                                                                                                                                                                                                                                                                                                                                                              5284
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                5463
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       5523
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            5583
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      5703
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             5763
                                                                                                                                                                                                   330
                                                                                                                                                                                                                                                                        390
                                                                                                                                                                                                                                                                                                                                               450
                                                                                                                                                                                                                                                                                                                                                                                                                   510
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          570
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               630
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         750
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              810
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    870
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         930
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                989
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CATGAAAAAGTGCTCATGACATATTGAGAAGACCTACTTACAAAGTGGCATATATTGCAA
                                                                                                                                                                                                                                                                                                                                                                       TGTGCACGGTGCCTGAAGCCGATCAGCCTGTCAGACTCACCCAGCTTCCCGAGAATGGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GACAATCACTCTCTCTCTCTCTCAGGACCCCCACGTCTGACTTAGTGGGGCACCTGACCACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CTGCCACTGTCATATGCTACCTTTCCTATCTCTTCCTTCATCATCTTGTTGTGGGCCATGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GGAGGTGGTGATGTAGAAATGGTTCGAGCTCAGAAGATAAAAGATAAAGTAGGGTAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GGAGGTGGTGATGTCAGAAGAAATGGCTCGAGCTCAGAAGATAAAAGAAGAAGGATAT
                                                                                                                                                                                                     271 AGCCAGTGAACATCATGGAGCTCTATCTTGGTGCCAAGGAATCCAAGAGCTTCACCTTCT
                                                                                                                                                                                                                       5105 AGCCAGTGAACATCATGGAGCTCTATCTTGGTGCCAAGGAATCCAAGAGCTTCACCTTCT
                                                                                                                                                                                                                                                                        ACCGGCGGGACATGGGGCTCACCTCCAGCTTCGAGTCGGCTGCCTACCCGGGCTGGTTCC
                                                                                                                                                                                                                                                                                          ACCGGCGGACATGGGGGCTCACCTCCAGCTTCGAGTCGGCTGCCTACCCGGGCTGGTTCC
                                                                                                                                                                                                                                                                                                                                               TGTGCACGGTGCCTGAAGCCGATCAGCCTGTCAGACTCACCCAGCTTCCCGAGAATGGTG
                                                                                                                                                                                                                                                                                                                                                                                                                   GCTGGAATGCCCCCATCACAGACTTCTACTTCCAGCAGTGTGACTAGGGCAACGTGCCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                       geriggaarigeceeeareaeaeaerrreraerreeaeeaerergaeraaeaeaaeere
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GACAATCACTCTTTCTGCTCTCAGGACCCCCAGGTCTGACTTAGTGGGCACCTGACCACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TIGICITCIGGITCCCAGITTGCATAAATTCTGAGATTTGGAGCTCAGTCCAGGGTCCTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TIGHTHE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CCCCACTGGATGGTGCTACTGCTGTGGAACCTTGTAAAAACCATGTGGGGTAAAACTGGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CCCCACTGGATGGTGCTACTGCTGTGGAACCTTGTAAAAACCATGTGGGGTAAACTGGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ATAACATGAAAAAGATTTCTGTGGGGGTGGGGGTGGGGGAGTGGTGGTGGAATCATTCCTGCTGCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AATGGTAACTGACAAGTGTTACCCTGAGCCCCAGGCCAACCCATCCCCAGTTGAGCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TATAGGGTCAGTAGCTCTCCACATGAAGTCCTCTCACCACCACTGTGCAGGAGAGGGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GTGGTCATAGAGTCAGGGATCTATGGCCCTTGGCCCAGCCCCACCCCTTCCCTTT-ATC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CTGCCACTGTCATATGCTACCTTTCCTATCTCTTCCCTCATCATCTTGTTGTGGGCCATGA
                                                                                                                                                                 Gaps
                                                                                                                                                                 4;
                                                                                                                              Length 7605;
                                                                                                                                                                 Indels
                                                                                                                              DB 3;
                                                                                                                                                                 16;
                                                                                                                            86.6%; Score 2220.4;
99.1%; Pred. No. 0;
ive 0; Mismatches
SOFTWARE: FastSEQ for Windows Version 3.0 SEQ ID NO 8 LENGTH: 7605
                                                                                                                          Query Match
Best Local Similarity 99.1
Matches 2274; Conservative
                                                     TYPE: DNA
ORGANISM: Homo sapiens
US-09-348-942-8
                                                                                                                                                                                                                                                                                                           5165
                                                                                                                                                                                                                                                                                                                                                                                5225
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             5344
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  5404
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 5584
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        5644
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              5704
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 5764
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          5824
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             5884
                                                                                                                                                                                                                                                                        331
                                                                                                                                                                                                                                                                                                                                                                                                                                                         5285
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       5464
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              5524
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1050
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1110
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      5944
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1170
                                                                                                                                                                                                                                                                                                                                               391
                                                                                                                                                                                                                                                                                                                                                                                                                     451
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          511
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 571
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           691
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              751
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    811
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           871
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  931
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       990
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      631
                                                                                                                                                                                                     ð
                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                      음
                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                       ద
                                                                                                                                                                                                                                                                                                                                                                                                            ŏ
                                                                                                                                                                                                                                                                                                                                                                                                                                                 a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8 B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            원
장
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              P &
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          THEREOF
                      6842
                                                                                                                              2129
                                                                                                                                                                                                                                                                        2249
                                                                                                                                                                 6962
                                                                                                                                                                                                     2189
                                                                                                                                                                                                                                    7022
                                                                                                                                                                                                                                                                                                           7081
                                                                                                                                                                                                                                                                                                                                               2309
                                                                                                                                                                                                                                                                                                                                                                                7141
                                                                                                                                                                                                                                                                                                                                                                                                                     2369
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2429
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2489
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2549
                                                                                                                                                                                                                                                                                                                                                                                                                                                         7201
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             7261
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                7321
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TIGHTHINIAGTTGCTCAGTTTTGGTCTAACTTGTTATGCAGCAATAGTAAATAA 7381
GCTAAGAAACACCAAGGATTGTGGCAACCATCAGAAGCTTGGAAGAGGGCAAAGAAGAATT
                                                                          CTTCCCTAGAGGCTTTAGAGGGATAACGGCTCTGCTGACACCTTAATCTCAGACTTCCAG
                                                                                                                                                   CCTCCTGAACGAAGAAAAAATTTTTTTTTTTAAGCCACCACCAAGGATAATTGGTTA
                                                                                                                                                                                                                       TGGCAGCTCTAGGAAACTAATACAGCTGCTAAAATGATCCCCTGTCTCTCTTTACAT
                                                                                                                                                                                                                                                                                                                                                                       CAGAAGTGATGCCATGCCACTTCCAAGATTAGGTTATAAAAAGACACTGCAGCTTCTACTT
                                                                                                                                                                                                                                                                                                                                                                                                                  GAGCCCTCTCTCTGCCACCCACCCCCCAATCTATCTTGGCTCACTCGCTCTGGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CTCCTGCCCACACACACATAGTGAACCTAGAAGCAGAGACTCTGTGTGAGATAATCAATGT
                                                                                                                            CCTCCTGAACAAGAATAAATTTCGGCTGTTTTAAGCCACCAAGGATAATTGGTTA
                                                                                                                                                                                                 CAGCAGCTCTAGGAAACTAATACAGCTGCTAAAATGATCCCTGTCTCCTCGTGTTTACAT
                                                                                                                                                                                                                                                                        TCTGTGTGTGTCCCCTCCCACAATGTACCAAAGTTGTCTTTGTGACCCAATAGAATATGG
                                                                                                                                                                                                                                                                                                       7023 TCTGTGTGTCCCCTCCCACATGTACCAAAGTTGTCTTTGTGA-CCAATAGAATATGG
                                                                                                                                                                                                                                                                                                                                               CAGAAGTGATGGCATGCCACTTCCAAGATTAGGTTATAAAAGACACTGCAGCTTCTACTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                       7202 AAGCTAGCTTCCATGCTATGAGCAGGCCTATAAAGAGACTTATGTGGTAAAAATGAAGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TTGTTGTTTTAAGTTGCTCAGTTTTGGTCTTAACTTGTTATGCAGCAATAGATAATAATA
                                                       CTTCCCTAGAGGCTTTAGAGGGATAACGGCTCTGCTGAAACCTTAATCTCAGACTTCCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAGCTAGCTGCCATGCTATGAGCAGGCCTATAAAGAGACTTACGTGGTAAAAAATGAAGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CTCCTGCCCACAGCCACATTAGTGAACCTAGAAGCAGAGACTCTGTGAGATAATCGATGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: John Ford

TITLE OF INVENTION: A NOVEL INTERLEUKIN-1 RECEPTOR ANTAGONIST AND USES

TITLE OF INVENTION: A NOVEL INTERLEUKIN-1 RECEPTOR ANTAGONIST AND USES

FILE REPERENCE: 2810/308101

CURRENT APPLICATION NUMBER: PCT/US99/04291

EARLIER PELING DATE: 1999-07-07

EARLIER FILING DATE: 1999-04-05

EARLIER PLING DATE: 1999-02-17

EARLIER PLING DATE: 1999-02-17

EARLIER PLING DATE: 1999-02-17

EARLIER FILING DATE: 1999-02-17

EARLIER FILING DATE: 1999-02-17

EARLIER FILING DATE: 1999-02-13

EARLIER FILING DATE: 1998-07-31

EARLIER PLING DATE: 1998-06-19

EARLIER PLING DATE: 1998-06-19

EARLIER PLING DATE: 1998-06-19

EARLIER PILING DATE: 1998-06-19

EARLIER PLING DATE: 1998-06-19

EARLIER PILING DATE: 1998-06-19

EARLIER PLING DATE: 1998-06-19

EARLIER PILING DATE: 1998-06-19

EARLIER PLING DATE: 1998-06-19

EARLIER PLING DATE: 1998-06-19

EARLIER PLING DATE: 1998-06-15

EARLIER PLING DATE: 1998-06-15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          USES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 8, Application US/09348942
Patent No. 6337072
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TGCAGAGAAGAGA 2563
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GENERAL INFORMATION:
                                                                                                                          2070
                                                                                                                                                                                                 2130
                                                                                                                                                                                                                                                                        2190
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  7262
                                                       2010
                                                                                         6843
                                                                                                                                                              6903
                                                                                                                                                                                                                                                                                                                                               2250
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2550
                    6783
                                                                                                                                                                                                                                    6963
                                                                                                                                                                                                                                                                                                                                                                                7082
                                                                                                                                                                                                                                                                                                                                                                                                                   2310
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2370
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2430
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2490
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     7322
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          7382
```

상염

8 g

8 6 6 6 6 6

Qy         2310 GAGCCTCTCTCTCTCCCCCCCCCCCCATCTATCTTGGCTCACTCGCTCTGGGGG         2369           7142 GAGCCTCTCTCTCTGCCACCGCCCCCATTATCTTGGCTCACTCGCTTGGGGG         7201           Db         7142 GAGCCTCTCTCTGCCACCGCCCCCCATTATCTTGTGCTCACTCGGGGG         7201           Qy         2370 AAGCTGCTGCTGCTATGAGCGCCTATAAAGAGACTTATGTGGTAAAAATGAAT         7261           Db         7202 AAGCTGCTCCATGCTATGAGCGCCTATAAAGAGACTTATGTGGTAAAAAATGAAT         7261           Qy         2430 CTCCTGCCCACAGCCACATTAGTGAACCTAGAAGACTTGTGAGATAATCAATGT         7321           Db         7262 CTCCTGCCCACAGCCACATTAGTGAACCTAGAAGACTTGTGAGATAATCAATGT         7321           Qy         2490 TTGTTGTTTAAGTTGACCTAGAAGCTTGTTATGCAGCAATAGATAATA         2549           PIHIHIHIHIHIHIHIHIHIHIHIHIHIHIHIHIHIHIH	26-8 8, Applicatic 1, 6426191 1, F6426191 1T: Ford, John TT: Ford, John TT: Pace, Ann TT: Application N TT: Applic	BARLIER FILING DATE: 1999-01-13
CON   CATGARAAAGTGCTCATGACATATTGAGAAGACCTACTTACAAAGTGGCATATTGCAA   6063     1230   TTTATTTAATTAATTAAAGATACCTATTTATATTATTATAAAAGATGGAAGAG   1289     6064   TTTATTTTAATTAAAAGATACCTATTTATATTATTATATAAAAAAAGTTGGAAGAG   6123     1290   TTTACTTCAATTGTAGCAATGTCAGGGTGGTGGCAGTATAGGTGATTTTTTTT	TAGTGATCAGGAAACAGATCTCAGCAAAGCCACTGAGGAGGGGGGCTGTGCTGAGTTTGTG TAGTGATCAGGAAACAGCAAAGCCACTGAGGAGGGGGGCTGTGCTGAGTTTGTG TGGCTGGAATCAGGTAAGGAAACTTAAAGAAAAACACACAGGGGTGTGATTGTG TGGCTGGAATCTCTGGGTAAGGAACTTAAAGAACAAAAATCATCTGGTAATTCTTTCCTA GAAGGATCACACGCCCCTGGGATTCCAAGGCATTGGATCCAGTCTCTGGTAATTCTTTCCTA GAAGGATCACACGCCCCTGGGATTCCAAGGCATTGGATCCAGTCTCTAAGAAGGCTGCTGT ACTGGTTGAATTGTGTCCCCCCCAAGGCATTCAACACAGGTTCTTTGGAAATTGGAATTGTGTCCCCCCCC	663 GTAGACCTAAATTCAATATGACTGGTTTCCTTGTATGAAAAGGGGGGCACAGGGGCCACAA 1949 6723 AGGAGACGGGGGAAGACTATGTAAAGATGAAGGCAGAGATTTTGCAGCCACAA 1949 6723 AGGAGACGCGGGGAACACTATGTAAAGATGAAGGCAGAGATTTTGCAGCCACAA 1949 6723 AGGAGACGCGGGGAACACTATGTAAAGATGAAGGCAGAGATTTTGCAGCCACAA 6782 1950 GCTAAGAAACACCAAGGATTGTGGCAACCATCAGAAGATTTGCAGCCACAA 6782 2010 CTTCCCTAGAGGCTTTAGAGGATAACGCTCTCAGAAGCTTGGAAGAGAACACTCCAG 6902 2010 CTTCCCTAGAGGCTTTAGAGGATAACGGCTCTGCTGAACCTTAATCTCAGACTTCCAG 6902 2010 CTTCCCTAGAGGCTTTAGAGGAATAACGGCTCTGCTCACCTTAATCTCAGACTTCCAG 6902 2070 CCTCCTGAAGAAGAAAAAAAAATACGGCTGTTTTTAAGCCACCTTAATCTCAGACTTTCCAG 6902 2070 CCTCCTGAACGAAGAAAAAAAATAATCGGCTGTTTTTAAGCCACCAAGAATAAATTGGTTA 6962 2130 CCTCCTGAACGAAAAAAAATACAGCTGATTTTAAGCCACCAGAGATAATTGGTTA 6962 2130 CCTCCTGAACGAAAAAAAAAAAAAAAAAAAAAAAAAAAA

	1470 CTCCAATTCCCCAGAGTAAATTCAAATTGAATCGAGCTCTGCTGCTCTGGTTGGT	1530 TAGTGATCAGGAAACAGATCTCAGCAAAGCCACTGAGGAGGCTGTGCTGAGTTTGTG 1589 	1590 TGGCTGGAATCTCTGGGTAAGGAACTTAAAGAACAAAATCATCTGGTAATTCTTTCCTA 1649 	1650 GAAGGATCACAGCCCTGGGATTCCAAGGCATTGGATCCAGTCTCTAAGAAGGCTGCTGT 1709 		1770 TATTIGGAGATAAGGICTCTGCAGATGIAGTTAAGACAAGGTCAIGCTGCAIGAAG 1829 	1830 GTAGACCTAAATTCAATATGACTGGTTTCCTTGTATGAAAAGGAGAGACACACAGACAG	1890 AGGAGACGGGGGGAAGACTATGTAAAGATGAAGGCAGAGATCGGAGTTTTGCAGCCACAA 1949 	1950 GCTAAGAAACACCAAGGATTGTGGCCAACCATCAGAAGCTTGGAAGAGGCAAAGAAGAATT 2009 	2010 CTTCCCTAGAGGCTTTAGAGGGATAACGGCTCTGCTGAAACCTTAATCTCAGACTTCCAG 2069	2070 CCTCCTGAACGAAGAATAAATTTCGGCTGTTTTAAGCCACCAAGGAIAATTGGTTA 2129 	2130 CAGCAGCTCTAGGAAACTAATACAGCTGCTAAAATGATCCCTGTCTCCTCGTGTTTACAT 2189 	CCCCTCCCACAATGTACCAAAGTTGTCTTTGTGACCCAATAGAATATGG 224	O CAGAAGTGATGGCATGCCACTTCCAAGATT	2310 GAGCCCTCTCTCTGCCACCGCCCCCATCTATCTTGGCTCACTGGCTCTGGGGG 2369	2370 AAGCTAGCTGCCATGCTATGAGCAGGCCTATAAAGAGTTTACGTGGTAAAAAATGAAGT 2429 	2430 CTCCTGCCCACACACACATTAGTGAACCTAGAAGCAGAGACTCTGTGAGATAATCGATGT 2489	2490 TIGITGITITAAGIIGCICAGIITITGGICTAACTIGITAIGCAGCAAIAGAIAAAIAAIA 2549 
	λόν Ob	δ qa	\$ A	දු පු	දු පු	oy Op	දු පු	oy Dp	oy Q	oy Dp	oy Dp	oy da	රු සි	දුරු පු	ර් සි	& 43	දු අ	8 %
_	dı 4		n m					·			, gs. m	. O. m						
**************************************	391 TGTGCACGGTGCTTGAAGCCGATCAGCTTCAGGTTGCGTTGCCTAGCCTAGCCTGCGGGGTTGCC 522 391 TGTGCACGGTGCCTGAAGCCGATCAGCCTGTCAGCCTGACCCAGCATCACCCAGCTTCCCGAGAATGGTG 450 5225 TGTGCACGGTGCCTGAAGCCGATCAGCCTGTCAGAGCTTCACAGAGTTATCCAGAATAGTG 538	GCTGGAATGCCCCCATCACAGACTTCTACTTCCAGCAGTGTGACTAGGGCAACGTGCCCC 51	CCCAGAACTCCCTGGGCAGGCAGCTCGGTGAGGGGTGAGTGGAGGGAG	CCACT 6	TCCTC 6	7 2	810	870	TATAGGGTCAGTAGCTCTCCACATGAAGTCCTCTCACTCA	989	CATGA 104	GTAT 110	ATTCC 116	1170 CATGAAAAAGTGCTCATGACATATTGAGAAGACCTACTTACAAGTGGCATATATTGCAA 1229 	AGAG 12	13	140	1410 TAAGAAAAGAAATTAATCTTGAGGTAAGCAGAGCAGACATCATCTCTGATTGTCCTCAGC 1469 

Mon

ŝ 셤

```
1109
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1169
                                                                           5463
                                                                                                                                                     5523
                                                                                                                                                                                                                               5583
                                                                                                                                                                                                                                                                                                          5643
                                                                                                                                                                                                                                                                                                                                                                                    5703
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  5763
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             6003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1229
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        6063
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1289
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  6123
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1349
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              6183
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1409
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          6243
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1469
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     6302
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1529
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               6362
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1589
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      6482
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1049
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        989
                                                                                                                                                                                           750
                                                                                                                                                                                                                                                                                                                                                870
                                                                                                                                                                                                                                                                                                                                                                                                                          930
                                                                                                                                                                                                                                                                                                                                                                                                                                                5344 CCCAGAACTCCCTGGGCAGAGCCAGCTCGGGTGAGGGGGTGAGAGGAGACCCATGGCG
                                                         5404 GACAATCACTCTCTCTCTCACGACCCCCACGTCTGACTTAGTGGGCACCTCTCACCACT
                                                                                                                                                     5464 TTGTCTTCTGGTTCCCAGTTTGGATAAATTCTGAGATTTGGAGCTCAGTCCACGGTCCTC
                                                                                                                                                                                                               5524 CCCCACTGGATGGTGCTACTGCTGTGGAACCTTGTAAAAACCATGTGGGGGTAAAAACTGGGG
                                                                                                                                                                                                                                                                                        5644 AATGGTAACTGACAAGTGTTACCCTGAGCCCCGCAGGCCAACCCATCCCCATGCTGAGCCT
                                                                                                                                                                                                                                                                                                                                                                                                                            TATAGGGTCAGTAGCTCTCCACATGAAGTCCTCTCACTACCACTGTGCAGGAGAGGGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GTGGTCATAGAGTCAGGGATCTATGGCCCTTGGCCCCAGCCCCCTTCCCTTT-ATC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CTGCCACTGTCATATGCTACCTTTCCTATCTTTCCCTCATCATCTTGTTGTGGGCCATGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1050 GGAGGTGGTGATGTCAGAAGAATGGTTCGAGCTCAGAAGATAAAGATAAGTAGGGTAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GCTGATCCTCTTTTAAAAACCCAAGATACAATCAAAATCCCAGATGCTGGTCTCTATTCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               5944 GCTGATCCTCTTTAAAAACCCAAGATACAATCCAAAATCCCAGATGCTGGTCTCTATTCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1170 CATGAAAAGTGCTCATGACATATTGAGAAGACCTACTTACAAAGTGGCATATATTGCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1330 TTTATTTAATTAAAAGATACCTATTTATATATTTTTTTATAGAAAAAAGTCTGGAAGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    6064 TITATITAATIAAAAGATACCTATITATATATATTTTTTTATAGAAAAAAAGCTGGAAGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TGTTAATTTATCTGTATTTCCTAATTTTTCTACAATGAAGATGAATTCCTTGTATAAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            6184 IGITAATITIATCIGIATITICCIAAATITITICTACAAIGAAGAIGAATITICTIAGAAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1410 TAAGAAAAGAAATTAAATCTTGAGGTAAGCAGAGCAGACATCATCTCTGATTGTCCTCAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   6244 TAAGAAAATTAATCTTGAGGTAAGCAGAGCAGACATCATCTCTGATTG-CCTCAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           6303 CTCCACTTCCCCAGAGTAAATTCAAATTGAATCGAGCTCTGCTGCTCTGGTTGTAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             5363 TAGTGATCAGGAATCAGATCTCAGCAAAGCCACTGAGGAGGAGGCTGTGATGAGTTTGTG
                                                                                                                                                                                                                                                                       ATAACATGAAAAGATTTCTGTGGGGTGGGGTGGGGGAGTGCTGGGAATCATTCCTGCTT
                                                                                                                                                                                                                                                                                                                                                AATGGTAACTGACAAGTGTTACCCTGAGCCCCGCAGGCCAACCCATCCCCAGTTGAGCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CCCCACTGGATGGTGCTACTGCTGTGGAACCTTGTAAAAACCATGTGGGGTAAAACTGGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1470 (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1,530
                                                                                                                   631
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   990
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1110
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1350
                                                                                                                                                                                             691
                                                                                                                                                                                                                                                                       751
                                                                                                                                                                                                                                                                                                                                                  811
                                                                                                                                                                                                                                                                                                                                                                                                                            871
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        931
                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                            q
                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  임
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       원
                                                               음
                                                                                                             ò
                                                                                                                                                 윰.
                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ⋧
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         .8
                                                                                                                                                                                                                                                     RECEPTOR ANTAGONIST AND USES THEREOF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     5284
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              5164
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               450
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       570
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           <u> ACCGGCGGGACATGGGGCTCACCTCCAGCTTCGAGTCGGCTGCCTACCCGGGCTGGTTCC</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   5225 IGIGCACGGIGCCIGAAGCCGAICAGCCIGICAGACICACCCAGCTICCCGAGAAIGGIG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     5105 AGCCAGTGAACATCATGGAGCTCTATCTTGGTGCCAAGGAATCCAAGAGCTTCACCTTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TGTGCACGGTGCCTGAAGCCGATCAGCCTGTCAGACTCACCCAGCTTCCCGAGAATGGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length 7605;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DB 4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 2220.4; Pred. No. 0; 0; Mismatches
                                                                                                                                                                                                                                         APPLICANT: FACE, AIN.

APPLICANT: PAGE, AIN.

FILE REFERENCE: 28110/34456

CURRENT APPLICATION NUMBER: US/09/576,008

CURRENT FILING DATE: 1000-05-22

PRIOR APPLICATION NUMBER: US 09/457,626

PRIOR APPLICATION NUMBER: US 09/457,626

PRIOR PILING DATE: 1999-10-13

PRIOR APPLICATION NUMBER: US 09/417,455

PRIOR APPLICATION NUMBER: US 09/417,455

PRIOR PILING DATE: 1999-07-07

PRIOR PILING DATE: 1999-07-07

PRIOR PILING DATE: 1999-07-07

PRIOR PELING DATE: 1999-07-17

PRIOR APPLICATION NUMBER: US 09/229,591

PRIOR APPLICATION NUMBER: US 09/029,818

PRIOR PELING DATE: 1998-07-31

PRIOR APPLICATION NUMBER: US 09/099,818

PRIOR APPLICATION NUMBER: US 09/099,818

PRIOR APPLICATION NUMBER: US 09/099,919

PRIOR APPLICATION NUMBER: US 09/099,919

PRIOR APPLICATION NUMBER: US 09/099,919

PRIOR PELING DATE: 1998-05-15

PRIOR APPLICATION NUMBER: US 09/059,909

PRIOR PELING DATE: 1998-05-15

PRIOR APPLICATION NUMBER: US 09/059,909

PRIOR APPLICATION NUMBER: US 09/059,909

PRIOR PELING DATE: 1998-05-15

PRIOR APPLICATION NUMBER: US 09/059,909

PRIOR PELING DATE: 1998-05-15

PRIOR APPLICATION NUMBER: US 09/059,909

PRIOR PELING DATE: 1998-05-15

PRIOR APPLICATION NUMBER: US 09/059,909

PRIOR PELING DATE: 1998-05-15

PRIOR APPLICATION NUMBER: US 09/059,909

PRIOR PELING DATE: 1998-05-15

PRIOR PELING DATE: 1998-05-15
                                                                                                                             Sequence 8, Application US/09576008
Patent No. 6541623
GENERAL INFORMATION:
                     Query Match
Best Local Similarity 99.1%;
Matches 2274; Conservative
                                                                                                                                                                                           APPLICANT: Ford, John APPLICANT: Ho, Alice Suk-Yue
TGCAGAGAAAGAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-09-576-008-8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           5165
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 5285
2550
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           451
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQ ID NO 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     331
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       511
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 391
```

g ઠે

ઠે 유 ò ద ઠે g Š

```
LOCATION: (1)...(5751)
OTHER INFORMATION: n = A,T,C or
                                                                                                                                                                                                                                                                                                                                                                                                                                       63.1%;
98.9%;
                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local Similarity 98.9
Matches 1663; Conservative
                                                                                                                                                                                                                                                                                                                                   TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc_feature
                                                                                                                                                                                                                                                                                                                                                                                                                 US-09-417-455-7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  4133
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  4253
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  4312
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           511
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            571
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1372
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            631
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          391
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           451
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        장염
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  8
                                                                                                                                                 1889
                                                                                                                                                                                                                                                                                                                                                                                                                                                     2249
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2369
                                                                                                                                                                                                                          6782
                                                                                                                                                                                                                                                                                                                           6902
                                                                                                                                                                                                                                                                                                                                                    2129
                                                                                                                                                                                                                                                                                                                                                                            6962
                                                                                                                                                                                                                                                                                                                                                                                                    2189
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2309
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2429
                                                                                                                                                              AGGAGACGCGCGGGAAGACTATGTAAAGATGAAGGCAGAGATCGGAGTTTTGCAGCCACAA 1949
                                                                                                                                                                                                                                                                           6842
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              7381
                                                                                                                                                                                                                                                 1950 GCTAAGAAACACCCAAGGATTGTGGCAACCATCAGAAGCTTGGAAGAGGCCAAAGAAGTT 2009
                                                                                                                                                                                                                                                                                                                                                                                                                            7022
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             7082 CAGAAGTGATGGCATGCCACTTCCAAGATTAGGTTATAAAAGACACTGCAGCTTCTACTT 7141
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   7142 GAGCCCTCTCTCTGCCACCCACCGCCCCCCATCTATCTTGGCTCACTGGGGG 7201
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TIGITGITITIAAGITGCTCAGITTTGGTCTAACITGTTAIGCAGCAATAGATAATA 2549
                                                                                                 TATTTGGAGATAAGGTCTCTGCAGATGTAGTTAGTTAAGACAAGGTCATGCTGGATGAAG
                                                                                                               GTAGACCTAAATTCAATATGACTGGTTTCCTTGTATGAAAAGGAGAGACACAGAGACAG
                                                                                                                                                                                                               AGGAGACGCGGGGAAGACTATGTAAAGATGAAGGCAGAGATCGGAGTTTTGCAGCCACAA
                                                                                                                                                                                                                                                                 GCTAAGAAACACCAAGGATTGTGGCAACCATCAGAAGCTTGGAAGGAGGGCAAAGAAGTT
                                                                                                                                                                                                                                                                                                    CTTCCCTAGAGGCTTTAGAGGGATAACGGCTCTGCTGAAACCTTAATCTCAGACTTCCAG
                                                                                                                                                                                                                                                                                                                  6843 CTTCCCTAGAGGCTTTAGAGGGATAACGGCTCTGCTGACACACCTTAATCTCAGACTTCCAG
                                                                                                                                                                                                                                                                                                                                                 2070 CCTCCTGAACGAAGAATAAATTTCGGCTGTTTTAAGCCACCAAGGATAATTGGTTA
                                                                                                                                                                                                                                                                                                                                                                  6903 CCTCCTGAACGAAGAAAGAATAAATTTTGGCTGTTTTAAGCCACCACCAAGGATAATTGGTTA
                                                                                                                                                                                                                                                                                                                                                                                                                  6963 TGGCAGCTCTAGGAAACTAATACAGCTGCTAAAATGATCCCTGTCTCCTCGTGTTTACAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                     TCTGTGTGTGTCCCCCCCCACATGTACCAAAGTTGTCTTTGTGACCCAATAGAATATGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            7023 rererererececececacaareraceaagriererirerea-ceaaradaararee
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CTCCTGCCCACAGCCACATTAGTGAACCTAGAAGCAGAGACTCTGTGAGATAATCAATGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      7322 TIGTIGITITIAAGTIGCTCAGTITIGGTCTAACTIGITATGCAGCAGTAATAATA
                                                                       6543 ACTGGTTGAATTGTCTCCCCCTCAAATTCACATCCTTCTTGGAATCTCAGTCTGTGAGTT
                                                                                                                                                                                                                                                                                                                                                                                                    2130 CAGCAGCTCTAGGAAACTAATACAGCTGCTAAAATGATCCCTGTCTCCTCGTGTTTACAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CAGAAGTGATGGCATGCCACTTCCAAGATTAGGTTATAAAAGACACTGCAGCTTCTACTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAGCTAGCTGCCATGCTATGAGCAGGCCTATAAAGAGAGTTACGTGGTAAAAATGAAGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CTCCTGCCCACACACATTAGTGAACCTAGAAGCAGAGACTCTGTGAGATAATCGATGT
                       6483 GAAGGATCACAGCCCCTGGGATTCCAAGGCATTGGATCCAGTCTCAAGAAGGCTGCTGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2550 TGCAGAGAAGAGA 2563
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TGCAGAGAAGAGA 7395
                                                                                                 1770
                                                                                                                                                                                                                        6723
                                                1710
                                                                                                                                                 1830
                                                                                                                                                                                                 1890
                                                                                                                                                                                                                                                                                                                                                                                                                                                     2190
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2370
 1650
                                                                                                                                                                                                                                                                          6183
                                                                                                                                                                                                                                                                                                    2010
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2250
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2310
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2430
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               7262
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2490
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               7382
ò
                  유
                                                ò
                                                                  g
                                                                                            ò
                                                                                                               유
                                                                                                                                                õ
                                                                                                                                                                 g
                                                                                                                                                                                                8 8
                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                            ઠે
                                                                                                                                                                                                                                                                                                                                                                       8 8
                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                             \stackrel{>}{\circ}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
```

RESULT 13
US-09-417-455-7
Sequence 7, Application US/09417455
Patent No. 6294655
GENERAL INFORMATION:
APPLICANT: Pord, John
APPLICANT: Pace, Ann

```
FILE REPERENCE: 28110/36328

CURRENT APPLICATION NUMBER: US/09/417,455

CURRENT APPLICATION NUMBER: US/09/417,455

CURRENT PILING DATE: 1999-10-13

PRIOR APPLICATION NUMBER: US/09/3129

PRIOR PILING DATE: 1999-04-05

PRIOR FILING DATE: 1999-04-05

PRIOR PILING DATE: 1999-02-1

PRIOR PELING DATE: 1999-02-1

PRIOR APPLICATION NUMBER: US/09/29, 91

PRIOR PILING DATE: 1999-07-11

PRIOR PILING DATE: 1999-07-11

PRIOR FILING DATE: 1999-06-19

PRIOR FILING DATE: 1999-06-19

PRIOR FILING DATE: 1999-06-19

PRIOR FILING DATE: 1999-06-19

PRIOR FILING DATE: 1999-06-10

PRIOR PILING DATE: 1999-06-10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                4132
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             4252
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 4311
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      4371
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  4491
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      4551
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              4431
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        4192
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                330
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    390
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         450
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             510
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     570
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      630
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  690
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      750
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1193 TGTGCACGGTGCCTGAAGCCGATCAGCCTGTCAGACTCACCCAGCTTCCCGAGAATGGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GCTGGAATGCCCCCATCACACAGACTTCTACTTCCAGCAGTGTGACTAGGGCAACGTG-CCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TTGTCTTCTGGTTCCCAGTTTGGATAAATTCTGAGAATTTGGAGCTCAGTCCACGGTCCTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Accescessacaresecricacerccacerrosasrossecrisceracessecrisserros
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GCTGGAATGCCCCCATCACAGACTTCTACTTCCAGCAGTGAGTAGTAGGGCAACGTGCCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CCCAGAACTCCCTGGGCAGAGCCAGCTCGGGTGAGGGGTGAGTGGAGGAGGACCCATGGCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GACAATCACTCTTTCTGCTCTCAGGACCCCCAGGTCTGACTTAGTGGGCACCTGACCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GACAATCACTCTCTCTGTGTCTCTCAGGACCCCCACGTCTGACTTAGTGGGCACCTGACCACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TIGICITCIGGITCCCAGTITGCATAAATTCTGAGATTTGGAGCTCCAGGGTCCTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ccccacregargergeracregeraccrrgraaaaaccareregegaacregega
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   271 AGCCAGTGAACATCATGGAGCTCTATCTTGGTGCCAAGGAATCCAAGAGCTTCACCTTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                4073 AGCCAGTGAACATCATGGAGCTCTATCTTGGTGCCAAGGAATCCAAGAGCTTCACCTTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        331 ACCGGCGGGAATGGGGCTCACCTCCAGCTTCGAGTCGGCTGCCTACCCGGGCTGGTTCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TGTGCACGGTGCCTGAAGCCGATCAGCCTGTCAGACTCACCCCAGCTTCCCGAGAATGGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        5751;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            و
•
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DB 3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 1616.6;
Pred. No. 0;
5; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      4432
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              4492
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  751
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          691
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
```

음 ò ద õ g 8 g õ ద ò g ò g ò 셤 ò 유 ઠ g õ ద õ g ò ద 8 පු ò ብ &

```
GENERAL INFORMATION:

APPLICANT: FOCA, JOHN
APPLICANT: Peace, Ann
TITLE OF INVENTION: A NOVEL INTERLEUKIN-1 RECEPTOR ANTAGONIST AND USES THEREOF
TITLE OF INVENTION: A NOVEL INTERLEUKIN-1 RECEPTOR ANTAGONIST AND USES THEREOF
TITLE PEREBRENCE: 28110/36010
CURRENT APPLICATION NUMBER: US 09/417,455
EARLIER APPLICATION NUMBER: US 09/318,942
EARLIER APPLICATION NUMBER: US 09/318,942
EARLIER FILING DATE: 1999-04-05
EARLIER PRILING DATE: 1999-04-05
EARLIER FILING DATE: 1999-04-05
EARLIER FILING DATE: 1999-04-05
EARLIER FILING DATE: 1998-07-31
EARLIER FILING DATE: 1998-07-31
EARLIER FILING DATE: 1998-07-31
EARLIER FILING DATE: 1998-05-10
EARLIER FILING DATE: 1998-06-15
E
                                                                                              5510
                                                                                                                                                                   1768
                                                                                                                                                                                                                                       5570
                                                                                                                                                                                                                                                                                                            1828
                                                                                                                                                                                                                                                                                                                                                                                 5630
                                                                                                                                                                                                                                                                                                                                                                                                                                                  1888
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       5690
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GAGGAGACGCGGGGAAGACTATGTAAAGATGAAGGCAGAGTCGGAGTTTTGCAGCCACA 1948
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 5750
                                                                                                                                                                                                                                                                                                                                                    TTATTTGGAGATAAGGTCTCTGCAGATGTAGTTAGTTAAGACAAGGTCATGCTGGATGAA
                                                                    GGTAGACCTAAATTCAATATGACTGGTTTCCTTGTATGAAAAGGAGAGACACAGAGACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              5511 TACTGGTTGAATTGTGTCCCCCTCAAATTCACATCCTTCTTGGAATCTCAGGTGTGAGT
                                                                                                                                                                                                                                                                                                            TTATTTGGAGATAAGGTCTCTGCAGATGTAGTTAAGACAAGGTCATGCTGGATGAA
                                                                                                                                                                      TACTGGTTGAATTGTGTCCCCCCCCAAATTCACATCCTTCTTGGAATCTCAGTCTGTGAGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length 5751;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DB 3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 1616.6;
Pred. No. 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 7, Application US/09457626
Patent No. 6426191
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LOCATION: (1)... (5751)
OTHER INFORMATION: n = A,T,C or
-09-457-626-7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  63.1%;
98.9%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TYPE: DNA ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FEATURE:
NAME/KEY: misc_feature
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1949 A 1949
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Å 5751
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQ ID NO 7
LENGTH: 5751
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 15
US-09-457-626-7
                                    1649
                                                                                                                                                                                                                                                                                                                1769
                                                                                                                                                                                                                                                                                                                                                                                     5571
                                                                                                                                                                                                                                                                                                                                                                                                                                                          1829
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           5631
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1889
                                                                                                                                                                      1709
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           5751
                                                                               В
                                                                                                                                                                   ò
                                                                                                                                                                                                                  ద
                                                                                                                                                                                                                                                                                              2000年
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1049
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1109
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1408
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                5270
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1528
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                5390
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      5450
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    5031
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   5211
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           4611
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1110 GCTGATCCTCTTTTAAAAACCCAAGATACAATCAAAAT-CCCAGATGCTGGTCTCTATTC 1168
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CCATGAAAAAGTGCTCATGACATATTGAGAAGACCTACTTACAAAGTGGCATATATTGCA 1228
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       5091
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ATAAGAAAAGAAATTAATCTTGAGGTAAGCAGAGCAGACATCATCTCTGATTGTCCTCAG 1468
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1589 GTGGCTGGAATCTCTGGGTAAGGAACTTAAAGAACAAAAATCATCTGGTAATTCTTTCCT 1648
                                                                                                                                                                                                                                               4432 TIGICTICTGGTICCCAGITIGGAIAAAIICTGAGAITIGGAGCTCAGTCCCC 4491
                                                                                                                                                                                                                                                                                                                                                                                                                     4551
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     4671
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 4732 Gregicarada de contra de contra
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               4792 CTGCCACTGTCATATGCTACCTTTCCTATCTTTCCTTCATCATCTTGTTGTGGGCATGA 4851
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1852 GGAGGTGGTGATGTCAGAAGAAATGGCTCGAGCTCAGAAGATAAAAGATAAGTAGGGTAT 4911
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              4912 GCTGATCCTCTTTTAAAAACCCAAGATACAATCAAAATCCCCAGATGCTGGTCTCTATTC 4971
                                                                                                                                      4431
1312 CCCAGAACTCCCTGGGCAGAGCCAGCTCGGGTGAGGGGTGAGTGGAGGAGACCCCATGGCG 4371
                                                                                                                                                                                                                                                                                                                                                    750
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          810
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                870
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          930
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    989
                                                                                                                                                                                                          690
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ATTTATTTTAATTAAAAGATACCTATTTATATATTTCTTTATAGAAAAAAGTCTGGAAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ATTITITITAATTAAAAGATACCTATTTATATATTTCTTTATAGAAAAAAGTCTGGAAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CTGTTAATTTTATCTGTATTTCCTAATTTTTCTACAATGAAGATGAATTCCTTGTATAAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     5152 CIGITAATITATCIGTATTICCTAATITITCTACAATGAAGATGAATTCCTIGTATAAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ATAAGAAAATTAATCTTGAGGTAAGCAGAGCAGACATCATCTCTGATKG-CCTCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GTAGTGATCAGGAAACAGATCTCAGCAAAGCCACTGAGGAGGAGGCTGTGCTGAGTTTGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                5331 GTAGTGATCAGGAAWCAGATCTCAGCAAAGCCACTGAGGAGGAGGAGGTGTGATGATTTGT
                                                                                                         1372 GACAATCACTCTCTGCTCTCAGGACCCCCACGTCTGACTTAGTGGGGCACCTGACCCT
                                                                                                                                                                                                                                                                                                                                                 CCCCACTGGATGGTGCTACTGTGGAACCTTGTAAAAACCATGTGGGGTAAACTGGGA
                                                                                                                                                                                                                                                                                                                                                                                            CCCCACTIGGATGGTGCTACTGCTGTGGAACCTTGTAAAAACCATGTGGGGGTAAAACTGGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       811 AATGGTAACTGACAAGTGTTACCCTGAGCCCCGCAGGCCAACCCATCCCCAGTTGAGCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AATGGTAACTGACAAGTGTTACCCTGAGCCCCGCAGGCCAACCCATCCCCAGTTGAGCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GGAGGTGGTGATGTCAGAAGAAATGGTTCGAGCTCAGAAGATAAAAGATAAGTAGGGTAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ccangaaaaagrgcrcargacararrigagaagaccractracaaagrggcararrigca
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GTTTACTTCAATTGTAGCAATGTCAGGGTGGTGGCAGTATAAGGTGATATTTCTTTTAATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TTGTCTTCTGGTTCCCAGTTTGCATAAATTCTGAGATTTTGGAGCTCAGTCCAGGGTCCTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CTGCCACTGTCATATGCTACCTTTCCTATCCTTCCTTCATCATCTTGTTGTGGGCATGA
                                                                                                                                                                                                          631
                                                                                                                                                                                                                                                                                                                                                                                                                  4492
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           4552
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1169
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 4972
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1229
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1409
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    5212
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          5271
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      5391
                                                                                                                                                                                                                                                                                                                                                    691
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1612
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          066
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1050
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           5032
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1289
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 5092
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1349
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1469
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1529
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          871
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    931
                                                                    571
```

g

\$ g

8 8 8

8 6 8 6 8 6 8 6 8 6 8

1349   CTGTTAMTTATCTCTAMTTTTTTACAATGAAGATGATTTTCTTAAATAAAAAAAAAA	
4 AGCOACTOARCHIVE 5; Mismatches 9; Indels 4; Gaps  4 AGCOACTOARCHIVE 5; Mismatches 9; Indels 4; Gaps  4 AGCOACTOARCHIVE FINE FINE FIRE FIRE FIRE FIRE FIRE FIRE FIRE FIR	4912 GCTGATCCTCTTTTAAAAACCCAAGATACAATCCAAAATCCCCAGATGCTGGTCTCTATTC 4971  1169 CCATGAAAAAGTGCTCATGACATATTGAGAAGCCTACTTACAAGTGGCTGGTCTCTATTGCA 1228

B &

ራ 8

8 8 8

음 중

8 6 8 6 8

δ

8 & 8

8 8 8

```
Mon Mar 14 10:22:44 2005
```

```
GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
                                                                                           - nucleic search, using sw model
                                                                                           OM nucleic
```

Run on:

March 13, 2005, 10:45:20 ; Search time 22.9062 Seconds (without alignments) 10854.228 Million cell updates/sec

US-09-617-720A-3 Title: Perfect score:

Sequence:

IDENTITY\_NUC Gapop 10.0 , Gapext 1.0 Scoring table:

4390206 segs, 2959870667 residues Searched:

8780412 Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

N\_Geneseq\_16Dec04:\* 1: qeneseqn1980s:\* Database

geneseqn2003cs:\* geneseqn2003ds:\* geneseqn2004as:\* geneseqn2002as:\* geneseqn2002bs:\* geneseqn2001as:\* geneseqn2001bs:\* geneseqn2003as:\* geneseqn2003bs:\* geneseqn1980s:\* geneseqn1990s:\* geneseqn2000s:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

geneseqn2004bs:\*

	Description	Aaf27923 Human IL-	Aaf27926 Interleuk	Aaf27950 Interleuk	Aaz30053 DNA encod	_	Abz77451 Extended	Aag95200 Simple ta	Continuation (7 of	Adj75968 Marker ge	Ads36459 Human aut	Adc24703 Human wil	Ada02876 Human DPT	Adb72614 Human DPT	Adc85355 Mouse Dpt	Adm74471 Human car	Adc87426 Human GPC	Abt10752 Human bre	Abl32170 Human imm	Abk88541 Human cho	Aaz98056 Human sec
SUMMARIES	QI ;	AAF27923	AAF27926	AAF27950	AAZ30053	AAF31356	AB277451	AAQ95200	ABD32923 6	ADJ75968	ADS36459	ADC24703	ADA02876	ADB72614	ADC85355	ADM74471	ADC87426	ABT10752	ABL32170	ABK88541	AAZ98056
	DB	5	ß	'n	~	4	œ	7	13	12	13	2	σ	10	10	12	10	9	9	9	က
	% Query Match Length DB	42	73	6540	7605	7605	7605	446	110000	4579	165156	335199	52661	52661	52661	52661	59588	74822	3973	496	867
	Query Match	100.0	100.0	100.0	100.0	100.0	100.0	78.6	76.2	74.8	74.8	74.8	73.3	73.3	73.3	73.3	73.3	73.3	72.4	71.0	71.0
	Score	42	42	42	42	42	42	33	32	31.4	31.4	31.4	30.8	30.8	30.8	30.8	30.8	30.8	30.4	29.8	29.8
	Result No.	п	7	m	4	ß	9	7	ω υ	o U	10	c 11	12	13	14	15	c 16	c 17	18	19	c 50

Add11669 Human sec Abx69765 Human sec Ada39774 Human sec Acc50425 Human sec Abx71239 Human sec Adb91132 Human sec Adc73483 Human sec Ada5964 Gene enco Ada55964 Gene enco Ada39721 Human sec Acc50392 Human sec Acc50392 Human sec Ada39724 Human sec Ada39724 Human sec Ada39724 Human sec Ada59566 Gene enco	Adp18732 Mouse lip Aak74096 Human imm Acn4328 Mouse gen Acn45050 Human gen Adp84151 Human CA1 Aa157700 Mouse pro Ada02669 Mouse Prl Adb72407 Mouse Prl Adb5917 Mouse Prl Adb5917 Mouse Prl Adb72407 Mouse Prl Adb74407 Mouse Prl Adb74407 Mouse Prl Adb7440 Mouse Prl
AAD11669 ABK68765 ADA39774 ACC50425 AB271239 AB271239 ADB31132 ADC73483 AAH32536 AAH32536 AAH32536 AAH32536 AAH32536 AAH55915 AAK58854	AAVT9096 AAKT9096 AAKT9096 1 ACKN43028 1 ACKN45050 2 ADAP8151 AALS7700 ADA02669 ADB72407 ADB72407 ABG83210 ABG83210 ABG83210 AAD5480
40000001140014	11 11 10 10 10 10 10 10 10 10 10 10 10 1
867 867 867 867 867 867 867 2777 2777 27	12141 21777 28729 41966 57082 96592 96592 96592 96592 96592 1110000
71.0 71.0 71.0 71.0 71.0 71.0 71.0 71.0	71.0 71.0 71.0 71.0 71.0 71.0 71.0 71.0
	******
22222222222222222222222222222222222222	222222222222222222222222222222222222222
12222222222222222222222222222222222222	4 C C C C C C C C C C C C C C C C C C C
0 0 0 0 0 0 0 0 0 0 0 0	υυυ

## ALIGNMENTS

Human; IL-IL1; interleukin-1 locus; IL-1beta; IL-1receptor; psoriasis; chromosone 2q13; inflammatory disease; heart disease; Graves' disease; rheumatoid arthritis; inflammatory bowel disorder; diabetes; cancer; osteoporosis; systemic luque erythematosus; ss. Human IL-IL1 coding sequence 5' end #2. BP. AAF27923 standard; cDNA; 42 (first entry) 08-MAY-2001 AAF27923; RESULT 1 AAF27923 

WO200105974-A2. sapiens. 25-JAN-2001. Homo

17-JUL-2000; 2000WO-US019508.

99US-0144298P. 16-JUL-1999; (INTE-) INTERLEUKIN GENETICS INC.

Nicklin M, Barton J;

WPI; 2001-091974/10.

Nucleic acids encoding human and murine interleukin-1L1 polypeptides useful for controlling inflammatory processes.

Claim 21; Fig 1; 150pp; English.

The present invention provides the protein and coding sequences of the human and murine interleukin-ILI (IL-ILI) proteins. The IL-ILI gene is located between the IL-Ibeta and IL-Ireceptor genes at human chromosome 2q13. The sequences are useful in the diagnosis, prevention and treatment of heart disease, cancer and inflammatory diseases such as rheumatoid arthritis, systemic lupus erythematosus, inflammatory bowel disorder, diabetes, psoriasis, osteoporosis, lichen sclerosis, ulcerative colitis,

(first entry)

```
Human; IL-III; interleukin-1 locus; IL-1beta; IL-1receptor; psoriasis; chromosome 2q13; inflammatory disease; heart disease; Graves' disease; rheumatoid arthritis; inflammatory bowel disorder; diabetes; cancer;
                                                                                                                                                                  osteoporosis; systemic lupus erythematosus; ds
                                                                                              Interleukin-IL1 genomic sequence.
                                                                                                                                                                                                                                                                                                                                  (INTE-) INTERLEUKIN GENETICS INC.
              AAF27950 standard; DNA; 6540 BP
                                                                                                                                                                                                                                                                             17-JUL-2000; 2000WO-US019508
                                                                                                                                                                                                                        WO200105974-A2
                                                                                                                                                                                                                                                                                                       16-JUL-1999;
                                                                                                                                                                                            Unidentified
                                                                    08-MAY-2001
                                                                                                                                                                                                                                                    25-JAN-2001.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAZ30053;
                                         AAF27950;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 4
 AAF27950
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAZ30053
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                            ò
                                                                                                              .
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The present invention provides the protein and coding sequences of the human and murine interleukin-ILI (IL-ILI) proteins. The IL-ILI gene is located between the IL-Ibeta and IL-Ireceptor games at human chromosome 2q13. The sequences are useful in the diagnosis, prevention and treatment of heart disease, cancer and inflammatory diseases such as rheumatoid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 of heart disease, cancer and inflammatory diseases such as rheumatoid arthritis, systemic lupus erythematosus, inflammatory bowel disorder, diabetes, psoriasis, osteoporosis, lichen sclerosis, ulcerative colitis,
                                                                                                                                                                                                                                                                                                                                               Human; IL-IL1; interleukin-1 locus; IL-1beta; IL-1receptor; psoriasis; chromosome 2q13; inflammatory disease; heart disease; Graves' disease; rheumatoid arthritis; inflammatory bowel disorder; diabetes; cancer;
severe periodontal disease and pregnancy complications. The present sequence is one of two alternative 5' ends of the human IL-IL1 coding
                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Nucleic acids encoding human and murine interleukin-1L1 polypeptides useful for controlling inflammatory processes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            severe periodontal disease and pregnancy complications. The present
                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 42; DB 5; Length 73; Pred. No. 0.0011;
                                                                                   5; Length 42;
                                                                                                              0; Indels
                                                                                                                                        1 AAGGAAGGAGAAAGGAAAGGAAGGAAGGAAGGAGTGAAA 42
                                                                                                                                                         1 AAGGAAGGAGGAGAAGGAAAGGAAAGGAAGGAAGGAGTGAAA 42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 73 BP; 31 A; 5 C; 33 G; 4 T; 0 U; 0 Other;
                                                       Sequence 42 BP; 19 A; 0 C; 21 G; 2 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         sequence is an IL-IL1 coding sequence fragment
                                                                                                                                                                                                                                                                                                                                                                                          osteoporosis; systemic lupus erythematosus; ds
                                                                                              0.001;
                                                                                                                                                                                                                                                                                                                       Interleukin-IL1 coding sequence fragment #1.
                                                                                                             0; Mismatches
                                                                                   Score 42;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (INTE-) INTERLEUKIN GENETICS INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Example, Fig 10, 150pp, English.
                                                                                                                                                                                                                                        멾
                                                                                   100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                100.08;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        42; Conservative 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     17-JUL-2000; 2000WO-US019508
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 99US-0144298P
                                                                                                                                                                                                                                     AAF27926 standard; DNA; 73
                                                                                                                                                                                                                                                                                            08-MAY-2001 (first entry)
                                                                                                              42; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Nicklin M, Barton J;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 2001-091974/10.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local Similarity
                                                                                   Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                 WO200105974-A2
                                                                                                                                                                                                                                                                                                                                                                                                                      Unidentified.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                16-JUL-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           25-JAN-2001.
                                                                                                                                                                                                                                                                  AAF27926;
                                 sednence
                                                                                                              Matches
                                                                                                                                                                                                             RESULT 2
                                                                                                                                                                                                                           AAF27926
                                                                                                                                                                                                                                        SXSSS
                                                                                                                                         ò
                                                                                                                                                                  g
```

99US-0144298P.

```
The present invention provides the protein and coding sequences of the human and murine interleukin-ILI (IL-ILI) proteins. The IL-ILI gene is located between the IL-Ibera and IL-Irceoeptor genes at human chromosome 2q13. The sequences are useful in the diagnosis, prevention and treatment of heart disease, cancer and inflammatory diseases such as rheumatoid arthritis, systemic lupus erythematosus, inflammatory bowel disorder, diabetes, psoriasis, osteoporosis, lichen sclerosis, ulcerative colltis, severe periodontal disease and pregnancy complications. The present sequence is the IL-ILI gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human; interleukin-1 receptor; IL-1; antagonist; sepsis; acute pancreatitis; endotoxic shock; cytokine induced shock; rheumatoid arthritis; chronic inflammatory arthritis; pancreatic cell damage; diabetes mellitus type 1; graft versus host disease; inflammatory bowel disease; inflammatory disease; inflammatory disease; autoimmune disease; inflammatory disease; antiproliferative; myelogenous leukemia; premature labor;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                             murine interleukin-1L1 polypeptides
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       .
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 6540 BP; 1747 A; 1458 C; 1709 G; 1626 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length 6540;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 , DB 5; he...
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       480 AAGGAAGGAGGAGAAGGAAGGAGTGAAGGAAGGAGTGAAA 521
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DNA encoding a human interleukin-1 receptor antagonist.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1 AAGGAAGGAGAAAGGAAGGAAGGAAGGAAGGAAAA 42
                                                                                             Nucleic acids encoding human and murine interuseful for controlling inflammatory processes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               100.0%; Sco...
100.0%; Pred. No. v. o. Mismatches
                                                                                                                                                                     Example; Fig 11; 150pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ВЪ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAZ30053 standard; DNA; 7605
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local Similarity luv..
Best A2; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (first entry)
Nicklin M, Barton J;
                                              WPI; 2001-091974/10.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      26-JAN-2000
```

ö

Gaps

ö

0; Indels

0; Mismatches

Matches

ઠે 셤

42

30 AAGGAAGGAGAAAGGAAAGGAATGAAGGAAGGAAGGAATGAAA 71

RESULT 3

ö

interleukin; IL-1 receptor; cancer; inflammation; ds.

Extension of genomic clone B2HFLS20W

```
The present sequence encodes a human interleukin-1 (IL-1) receptor antagonist. It is an extension of AAZJ0052. The encoded polypeptide is capable of binding IL-1 receptors (IL-1Rs). The polymucleoides and polypeptides can be used for the prevention or treatment of disorders involving sepsis, acute pancreatitis, endotoxic shock, cytokine induced shock, rheumatorid arthritis, chronic inflammatory arthritis, pancreatic cell damage from diabetes mellitus type 1, graft versus host disease, inflammatory bowel disease, inflammation associated with pulmonary call disease, other autoimmune disease or inflammatory disease, and cantiproliferative agent such as for acute or chronic myelogenous leukemia and the prevention of premature labor secondary to intrauterine cor in the prevention of premature labor secondary to intrauterine activity, cytokine and cell proliferation/differentiation activity, immune stimulating or suppressing activity, hematopoissis regulating activity, tissue growth activity, activity, hematopoissis regulating chemokinetic activity, hemostatic and thrombolytic activity, receptor/chemokinetic activity, activity, activity, the products can also be used for detection, diagnosis and drug screening
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New isolated interleukin-1 receptor binding polypeptides, used to treat e.g. sepsis, shock, arthritis, pancreatitis, graft-versus-host disease, inflammatory disease, autoimmune disease or proliferative disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
intrauterine infection; nutritional activity; hematopoiesis regulating activity; tissue growth activity; hematopoiesis regulating activity; chemotactic activity; chemotactic activity; chemotactic activity; anti-inflammatory activity; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 7605 BP; 2081 A; 1647 C; 1865 G; 2007 T; 0 U; 5 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ..
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Crkvenjakov R, Dickson M, Drmanac S, Labat I;
), Kita D, Ford J, Pace A, Alfenito M;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            100.0%; Score 42; DB 2; Length 7605; 100.0%; Pred. No. 0.0015; Live 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 AAGGAAGGAGGGAAGGGAAGGAGGAAGGAAGGAGTGAAA 42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Disclosure; Fig 10A-C; 123pp; English
                                                                                                                                                                                                                                                                      98US-00055010.
98US-00079909.
98US-00099818.
98US-00127698.
99US-00259591.
                                                                                                                                                                                                                                    99WO-US004291
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    42; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Leshkowitz D, Kita D,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 1999-611042/52
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                (HYSE-) HYSEO INC.
                                                                                                                                                                                                                                                                                                              20-MAY-1998;
19-JUN-1998;
31-JUL-1998;
                                                                                                                                                          W09951744-A2
                                                                                                                    Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                        13-JAN-1999;
17-FEB-1999;
                                                                                                                                                                                                                                    05-APR-1999;
                                                                                                                                                                                                14-OCT-1999
                                                                                                                                                                                                                                                                                            15-MAY-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Drmanac R,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1338
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Matches
    ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ద
```

Isolated nucleic acids encoding interleukin-1 (IL-1) receptor antagonist proteins (referred as IL-1Hy1), useful in the treatment of cancer, e.g. breast adenocarcinoma and brain tumors, and an inflammatory disease mediated by IL-18.

WPI; 2001-071582/08.

13-OCT-1999; 99US-00417455. 08-DEC-1999; 99US-00457626. 10-MAX-2000; 2000US-0052555. 22-MAY-2000; 2000US-00576008.

(HYSE-) HYSEQ INC. Ford J, Pace A;

07-JUL-2000; 2000WO-US018710

WO200102571-A2 Homo sapiens

11-JAN-2001

99US-00348942

07-JUL-1999;

Disclosure; Fig 10; 179pp; English.

```
The present invention relates to interleukin (IL)-1 receptor antagonist proteins. IL-1Hy1 is useful for treating cancer, an inflammatory disease mediated by IL-18, inflammation resulting from infection or allergic reactions, and inflammation associated with chronic bronchitis, arbitis, diabetes or endothermia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Interleukin-1Hy1; IL-1Hy1; B-cell proliferation; B-cell activation; B-cell differentiation; B-cell-related disorder; lymphoma; leukemia; myeloma; infection; autoimmune disease; allergy; asthma;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Extended genomic DNA sequence of a human Interleukin-1Hy1 (IL-1Hy1)
                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 7605 BP; 2079 A; 1647 C; 1865 G; 2009 T; 0 U; 5 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 7605;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Match 100.0%; Score 42; DB 4; Length 76 Local Similarity 100.0%; Pred. No. 0.0015; Local 42; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1339 AAGGAAGGAGGAAAGGAAGGAGTGAAGGAAGGAGTGAAA 1380
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 AAGGAAGGAGAGAAGGAAGGAGTGAAGGAAGGAGGAGTGAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         allergic rhinitis; IgA production; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ABZ77451 standard; cDNA; 7605
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        25-JUL-2002; 2002WO-US023845.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              25-JUL-2001; 2001US-0307754P.
29-NOV-2001; 2001US-0334668P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WO2003010291-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      28-MAY-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                06-FEB-2003.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ABZ77451;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Best Loc
Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT
ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
```

ö

AAF31356 standard; DNA; 7605

05-APR-2001 (first entry)

AAF31356;

RESULT 5
AAP31356
ID AAP3
XX
AC AAF3
XX
XX
XX

ö

Claim 26; Page 25; 51pp; English.

```
Identifying simple tandem repeat loci in DNA - by screening DNA library to enrich for fragments contg. the repeats before cloning and rescreening, also simple tandem repeats for treatment or diagnosis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Simple tandem repeat; STR; wg2b3; treatment; genetic; diagnosis; characterisation; mapping; linkage studies; analysis; alleles; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1339 AAGGAAGGAGGAAGGAAGGAGTGAAGGAAGGAGTGAAA 1380
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Simple tandem repeat (STR) corresponding to wg2b3.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    94WO-GB002789
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              93GB-00026052
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAQ95200 standard; DNA; 446
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (first entry)
                                                                                Ford JE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Armour J;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (UYLE-) UNIV LEICESTER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 1995-240682/31.
                                                                                                                                          WPI; 2003-239438/23
                        (HYSE-) HYSEQ INC
                                                                                   Ho AS, Lin H,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               08-FEB-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WO9517522-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    21-DEC-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              21-DEC-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Jeffreys AJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         29-JUN-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAQ95200;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT 7
AAQ95200
XX
AAQ95200
XX
AAQ95200
XX
DT 08-F
XX
XX
Simp
XX
Char
XX
Cha
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
```

BP

```
AAQ95200 is a simple tandem repeat (STR) corresponding to wg2b3. The STR can be used for treatment and diagnosis in human and veterinary medicine, partic. for genetic characterisation, mapping, linkage studies and analysis/diagnosis of acquired disease alleles
                                                                                                                                                                                                                                                        Sequence 446 BP; 164 A; 47 C; 190 G; 44 T; 0 U; 1 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Continuation (7 of 8) of ABD32923 from base 600001 WP Sequence split into 8 fragments LOCUS ABD32923
                                                                                                                                                                                                                                                                                                                         Query Match 78.6%;
Best Local Similarity 87.8%;
Matches 36; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RESULT 8
ABD32923
X & X & S & S & S & S & S & S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                             The present sequence encodes human interleukin (IL)-IHy1 polypeptide. IL-
IHy1 inhibitors are used in the method of the invention. The
specification describes a method of inhibiting B-cell proliferation,
c specification or differentiation. The method comprises administering an
inhibitor of IL-IHy1 activity to a human with elevated B-cell levels or
cetivity, in an amount that inhibits B-cell proliferation induced by IL-
IHy1. The method is useful for inhibiting or stimulating B-cell
proliferation, activation or differentiation in patients having a B-cell
proliferation, activation or differentiation in patients having a B-cell-
celled disorder (e.g. lymphoma, leukemia, myeloma or infection) or an
autoimmune disease (e.g. allergy, asthma or allergic rhinitis), or in
screening for compounds that modulate B-cell differentiation. The IL-IHY1
polypeptide, or the inhibitor of IL-IHy1 activity, is useful in preparing
a medicament for stimulating or reducing B-cell proliferation,
differentiation or activation. The IL-IHY1 polypeptide may also be used
in preparing a medicament for reducing IgA production
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                             Inhibiting or stimulating B-cell proliferation, activation or differentiation, useful for treating B-cell-related disorders or autoimmune diseases, comprises administering an interleukin-1Hyl polypeptide or its inhibitor.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 7605 BP; 2079 A; 1647 C; 1865 G; 2009 T; 0 U; 5 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local Similarity 100.0%; Pred. No. 0.0015;
Matches 42; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                 Disclosure; Page 111-113; 115pp; English
                                                                                                      Rupp F;
```

(Human cancer-associated genomic DNA F

LOCUS ABD32923 Accession Abd32923

610000 710000 788759

500001 600001 700001

ABD32923 5 ABD32923 6 ABD32923

ABD32923\_

100001

210000 410000 510000

100001 100001

110000

Begin

Fragment Name ABD32923\_0 ABD32923\_1 ABD32923\_2 ABD32923\_3

ö

Gaps

ö

Score 33; DB 2; Length 446; Pred. No. 0.63; 0; Mismatches 5; Indels

```
ö
                                                                                                                                                                                                             bronchial asthma; chronic obstructive pulmonary disease;
respiratory epithelial cell; interleukin-13; respiratory; antiasthmatic;
                       Gaps
                       ö
                                                                                                                                                                                                                                                                                                                                                                                                       Yamaya M, Kubo H, Nagai H, Izuhara K;
Length 110000;
                       5; Indels
                                                                  42215 AAGGAGGGAGGAGAAGGAAGGAGAAGGAAGGAAGGA 42176
                                             1 AAGGAAGGAGAAAGGAAAGGAGTGAAGGAAGGAGTGA
   DB 13;
Score 32; DB 1; Pred. No. 1.9; 0; Mismatches
                                                                                                                                                                                                                                      gene therapy; marker gene; gene; ds.
                                                                                                               ADJ75968/c
ID ADJ75968 standard; DNA; 4579
                                                                                                                                                                                                                                                                                                                               04-AUG-2003; 2003EP-00254857.
                                                                                                                                                                                                                                                                                                                                                   06-AUG-2002; 2002JP-00229312.
20-MAR-2003; 2003JP-00077212.
 76.2%;
87.5%;
                                                                                                                                                                                           Marker gene SEQ ID NO:1220.
                                                                                                                                                                    20-MAY-2004 (first entry)
           Local Similaricy ches 35; Conservative
                                                                                                                                                                                                                                                                                                                                                                                    (GENO-) GENOX RES INC.
                                                                                                                                                                                                                                                                                                                                                                                                          Ohtani N, Sugita Y,
                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 2004-193155/19.
                                                                                                                                                                                                                                                             Mus musculus
                                                                                                                                                                                                                                                                                                        03-MAR-2004.
                                                                                                                                                ADJ75968;
   Query Match
                         Matches
                                                                                                      RESULT 9
                                                                                                                                                  g
                                               ે
```

```
Local Similarity
    healthy subject
                                                                                                    WO2004083403-A2
                                                                                                 Homo sapiens
                                                                                                       30-SEP-2004.
                                                                             ADS36459;
                                                          Query Match
                                                                       Matches
ઠ
                                                                  g
```

```
The present invention describes a method of testing for bronchial asthma or chronic obstructive pulmonary disease. The method comprises

C determining the expression level of a marker gene in a biological sample from a subject, comparing the expression level determined with the expression level of the marker gene comprises from a healthy subject, and judging whether the subject has bronchial asthma or chronic obstructive pulmonary disease. The marker gene comprises: (a) a group of genes (S1) whose expression levels increase when respiratory spithelial cells are stimulated with interleukin-13. Also described: (1) a reagent (1) for certimalated with interleukin-13. Also described: (1) a reagent (1) for testing for bronchial asthma or chronic obstructive pulmonary disease; (2) a kit for screening for a candidate compound for a therapeutic agent to treat bronchial asthma or chronic obstructive pulmonary disease; (3) an animal model for bronchial asthma or chronic obstructive pulmonary disease; (5) a marker gene or an antisense nucleic acid corresponding to a portion of the marker gene or an antisense nucleic acid corresponding to a portion of the marker gene a ribozyme, a polymucleotide that suppresses the compound, a protein encoded by a marker gene; and (7) a DNA chip for testing for compounding a protein encoded by a marker gene; and (7) a DNA chip for testing for component and antiasthma or arbonic obstructive pulmonary disease, on which a probe has been immobilised to assay a marker gene. (1) has respiratory and antiasthma or arbonic obstructive pulmonary disease, on which a probe has been immobilised to assay a marker gene. The marker gene is suseful for resting for or screening for a properses. The present
Testing for bronchial asthma or chronic obstructive pulmonary disease by comparing the expression level of a marker gene in a biological sample from a subject with the expression level of the gene in a sample from a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        bronchial asthma or chronic obstructive pulmonary disease. The pr
sequence is used in the exemplification of the present invention.
                                                                                                                                                                                                                                                                                                         Example 11; SEQ ID NO 1220; 241pp; English.
```

ö Gaps Seguence 4579 BP; 1124 A; 1151 C; 1149 G; 1155 T; 0 U; 0 Other; ; 0 74.8%; Score 31.4; DB 12; Length 4579; 85.4%; Pred. No. 2.3; Indels 9 0; Mismatches 85.4%; 35; Conservative

Human autoimmune disease-related genomic DNA sequence - SEQ ID 1673. ADS36459 standard; DNA; 165156 BP. 16-DEC-2004 (first entry)

single nucleotide polymorphism detection; SNP detection; rheumatoid arthritis; type 1 diabetes; multiple sclerosis; systemic luque erythemateosus; inflammatory bowel disease; psoriasis; thyroiditis; celiac disease; permicienus anaemia; asthma; vitiligo; glomerulonephritis; Grave's disease; myocarditis; Sjogren's disease; primary systemic vasculitis; ds.

18-MAR-2004; 2004WO-US008461

18-MAR-2003; 2003US-0455444P. 25-APR-2003; 2003US-0465241P. 

(APPL-) APPLERA CORP.

Alexander HC; Cargill M, Begovich AB,

WPI; 2004-728480/71

New isolated nucleic acid molecule comprises at least 8 contiguous nucleotides where one of the nucleotides is a single nucleotide polymorphism (SNP), useful for diagnosing or treating autoimmune diseases, e.g. rheumatoid arthritis.

Claim 16; SEQ ID NO 1673; 123pp; English.

genetic polymorphisms associated with an altered risk of developing an autoimmune disease (e.g. rheumatoid arthritis). The invention further comprises a method of identifying an individual that has an altered risk of developing an autoimmune disease, comprising detecting a single nucleotide polymorphism (SNP) in a nucleic acid of the invention. The DNA and protein sequences of the invention are useful for diagnosing and treating autoimmune diseases, such as: rheumatoid arthritis, type 1 diabetes, multiple sclerosis, systemic lupus erythematosus, inflammatory bowel diseases, psoriasis, thyroiditis, celiac disease, pernicious anaemia, asthma, vitiligo, glomerulonephittis, Grave's disease, myocarditis, Sjograv's disease, or primary systemic vasculitis. The present nucleic acid represents a human autoimmune disease related genomic DNA sequence of the invention. NOTE: The present sequence is not shown in the specification, but has been retrieved from the WIPO website. The invention comprises amino acid and coding sequences containing

Sequence 165156 BP; 45717 A; 35582 C; 35601 G; 47895 T; 0 U; 361 Other;

0; Gaps Score 31.4; DB 13; Length 165156; Pred. No. 2.9; 6; Indels 0; Mismatches Query Match 74.8%; Best Local Similarity 85.4%; Matches 35; Conservative

ö

80763 AAGGAAGGAAGGAGGAGGAGGAAGGAAGGAAGGAA 80803 1 AAGGAAGGAGGAGAAGGAAGGAGGAAGGAAGGAGTGAA 41 g

ò

ADC24703 standard; DNA; 335199 BP 18-DEC-2003 (first entry) ADC24703; ADC24703/c RESULT 11

Human wild type HNL4Y genomic sequence.

ds; nootropic; neuroleptic; tranquillizer; gene therapy; synaptogenesis; mutation; neurological disease; mental disorder; psychiatric illness; autism; Asperger syndrome; schizophrenia; attention deficit hyperactivity disorder.

Homo sapiens,

cocation/Qualifiers /number= 2 109002. .205868 /\*tag= d /number= 2 'number= 1b 108500. .109001 10299. .108499 .0156. .10298 ๙ 'tag= c 'number= \*tag= intron intron ехоп TOX 

ö

Gaps

;

Indels 41

. 9

0; Mismatches

Query Match
Best Local Similarity 85.4%;
Matches 35; Conservative

1 AAGGAAGGAGGAAAGGGAAGGAAGGAAGGAAGGAGTGAA

ઠ

. .238212 k 310596

38090.

/\*tag= k /number=

38213.

\*tag=

number= 3b

.310783

.316138

/number= / 310784.

.316929

number=

\*tag=

.238089

235140.

number= 3b

\*tag=

.209679

number=

/\*tag=

.235027

'number=

\*tag=

209680.

\*tag= h

.235139

/number= 235028.

.205928

.209525

/number= 205929. .

mental disease. This sequence corresponds to the genomic sequence of the human wild type HNL4Y gene.

886666666

Sequence 335199 BP; 98958 A; 63589 C; 65677 G; 106975 T; 0 U; 0 Other;

Score 31.4; DB 10; Length 335199; Pred. No. 3.1;

wild-type forms of the nucleic acid and polypeptide can be used similarly. Also detecting mutations in the nucleic acid and polypeptide, or assuring activity of the polypeptide, can be used to detect biochemical disorders that affect formation of synapses and to diagnose

```
The invention relates to an isolated or purified polynucleotide encoding a polypeptide (the wild-type form of which is involved in synaptogenesis) that includes at least one mutation associated with development of neurological disease and/or a predisposition to development of mental disorders or psychiatric illness. The polypeptide are used to screen for agents that modulate their activity. Also nucleic acid, polypeptide, polypeptide-specific antibodies, vectors containing he nucleic acid and host cells containing the vector, are useful as pharmaceuticals for treating mental and neurological disorders, specifically autism, Asperger syndrome, schizophrenia and attention deficit hyperactivity disorder. The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   New nucleic acid encoding mutant protein involved in synaptogenesis, useful for treatment and diagnosis of e.g. autism, Asperger syndrome, and schizophrenia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          INRM ) INSERM INST NAT SANTE & RECH MEDICALE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (INSP ) INST PASTEUR.
(ASSI-) ASSISTANCE PUBLIQUE HOPITAUX PARIS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Claim 10; SEQ ID NO 4; 416pp; French.
                                                                                                                                                                                                                                                                                                                                                                                                       326822. .330136
/*tag= q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              02-DEC-2002; 2002WO-FR004134
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    30-NOV-2001; 2001CA-02364106
                                                                                                                                                                                                                                                          /number=
310597.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Jamain S,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 2003-493399/46.
                                                                                                                                                                                                                                                                                                                                                                                                                                                   WO2003045998-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Bourgeron T,
Gillberg C;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        05-JUN-2003
                                 intron
                                                                                                 intron
                                                                                                                                                                    intron
                                                                                                                                                                                                                                     intron
                                                                                                                                                                                                                                                                                                      intron
                                                                                                                                                                                                                                                                                                                                                                       intron
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (INSP
                                                                 exon
                                                                                                                                   exon
                                                                                                                                                                                                     exon
                                                                                                                                                                                                                                                                       exon
                                                                                                                                                                                                                                                                                                                                        exon
                                                                                                                                                                                                                                                                                                                                                                                                         exon
```

16930. .326821

number=

\*tag=

'number= 5

'number=

```
acid sequences from mouse and human (ADAO1482-ADAO3094), and to recombinant carcinoma associated proteins (CAP) encoded by them. The invention also encompasses expression vectors and host cells comprising a nucleic acid, a polypeptide (especially an antibody) that specifically binds to the protein, and a biochip comprising CA nucleic acid or fragments thereof. The sequences of the invention were identified using oncognic retroviruses, which insert into the genome of the host organism at random. Many of these do not carry transduced host oncognes or direct consequence of the effects of proviral integration into host protooncogenes. The CA nucleic acid sequences can be used to diagnose
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Carcinoma (especially breast cancer, prostate cancer, lymphoma or leukaemia) or a propensity to carcinoma by determination of the sequence of a CA gene, or by determination of CA gene expression in particular tissues. CA nucleic acids, proteins and antibodies are also useful as therapeutic agents and in screening and evaluating drug candidates. The present sequence represents a specifically claimed human CA nucleic acid sequence of the invention. Note: The complete sequence data for this patent did not form part of the printed specification, but was obtained
                                                                                                                                                                                                                                                                            Human; carcinoma associated; oncogene; carcinoma; cancer; breast; prostate; lymphoma; leukaemia; cytostatic; gene therapy; drug screening;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The invention relates to recombinant carcinoma associated (CA) nucleic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        New recombinant nucleic acid encoding carcinoma associated protein, useful for preparing compositions for treating carcinomas.
299390 AGGGAAGGAAGGAAGGAAGGAAGGAAGGAAGGAA 299350
                                                                                                                                                                                                                                   Human DPT carcinoma associated gene, SEQ ID NO:1394.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Claim 1; SEQ ID NO 1394; 245pp; English
                                                                                                           ADA02876 standard; DNA; 52661 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     26-DEC-2002; 2002WO-US041414.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              26-DEC-2001; 2001US-00035832.
                                                                                                                                                                                            (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (SAGR-) SAGRES DISCOVERY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 2003-587068/55.
                                                                                                                                                                                                                                                                                                                                                                                                    WO2003057146-A2
                                                                                                                                                                                                                                                                                                                                                               Homo sapiens.
                                                                                                                                                                                            06-NOV-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                            17-JUL-2003.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Morris DW;
                                                                                                                                                                                                                                                                                                                      gene; ds.
                                                                                                                                                      ADA02876;
                                                                    RESULT 12
      g
```

Leboyer M;

Betancur C,

Quach H,

carcinoma-associated gene; CA;

cancer;

(first entry)

```
New recombinant nucleic acid comprising a nucleotide sequence of any of the carcinoma-associated (CA) genes, useful for screening for drug candidates for diagnosing or treating carcinomas.
                                                                                                      Cytostatic; gene therapy; vaccine; cancer; secreted; transmembrane; intracellular; ds
                                                                                                                                                                                                                                                                                                                                                                                               Claim 1; SEQ ID NO 141; 983pp; English.
   ADC85355 standard; DNA; 52661 BP.
                                                                                                                                                                                                                    02-DEC-2002; 2002WO-US038582.
                                                                                                                                                                                                                                           30-NOV-2001; 2001US-00997722
                                                                             Mouse Dpt coding sequence
                                                                                                                                                                                                                                                                    (SAGR-) SAGRES DISCOVERY
                                                                                                                                                                                                                                                                                                                       WPI; 2003-513603/48.
                                                                                                                                                                   WO2003045230-A2
                                                    01-JAN-2004
                                                                                                      Cytostatic;
                                                                                                                                                                                           05-JUN-2003
                                                                                                                                                                                                                                                                                               Morris DW,
                           ADC85355
                                                                                                                                          Mus sp.
   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The invention relates to a novel recombinant nucleic acid comprising a nucleotide sequence selected from any of the 660 sequences fully defined in the specification. A polynucleotide of the invention has cytostatic activity, and may have a use in gene therapy, or in a vaccine. The recombinant nucleic acids and polypeptides are useful for treating carcinomas, e.g. lymphomas, cancers, neoplasm, adenocarcinoma, and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  recombinant nucleic acid, useful for treating carcinomas, lymphomas,
                                                                                         Gaps
                                      Sequence 52661 BP; 15800 A; 11001 C; 11082 G; 14778 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 52661 BP; 15800 A; 11001 C; 11082 G; 14778 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                         ds; cytostatic; gene therapy; vaccine; carcinoma; lymphomas;
                                                                                         ö
                                                             Query Match 73.3%; Score 30.8; DB 9; Length 52661; Best Local Similarity 83.3%; Pred. No. 4.1; Matches 35; Conservative 0; Mismatches 7; Indels 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DB 10; Length 52661;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           sarcomas. The present sequence represents a human gene of the
                                                                                                                                 cancer; neoplasm; adenocarcinoma; sarcoma; gene.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  cancers, neoplasm, adenocarcinoma, or sarcomas.
in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             73.3%; Score 30.8;
83.3%; Pred. No. 4.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Claim 1; SEQ ID NO 442; 2304pp; English.
                                                                                                                                                                                                       52661 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                               02-MAR-2001; 2001US-00798586.
23-CCT-2001; 2001US-00004113.
08-NOV-2001; 2001US-00957722.
20-DEC-2001; 2001US-0034650.
                                                                                                                                                                                                                                                                                                                                                                                                                        26-DEC-2001; 2001WO-US051291
                                                                                                                                                                                                                                                      (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Engelhard EK;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (SAGR-) SAGRES DISCOVERY
                                                                                                                                                                                                       DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2003-239337/23.
                                                                                                                                                                                                     ADB72614 standard;
                                                                                                                                                                                                                                                                                                                                                                      WO2003008583-A2
                                                                                                                                                                                                                                                                               Human DPT gene
                                                                                                                                                                                                                                                                                                                                              Homo sapiens,
                                                                                                                                                                                                                                                      04-DEC-2003
                                                                                                                                                                                                                                                                                                                                                                                               30-JAN-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DW,
                                                                                                                                                                                                                             ADB72614;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Morris
                                                                                                                                                                                                                                                                                                         human;
                                                                                                                                                                           RESULT 13
ADB72614
SSXS
                                                                                                                                      셤
                                                                                                                                                                                                    ઠે
```

Engelhard EK;

```
The invention relates to a recombinant nucleic acid comprising a nucleotide sequence selected from any of the fully defined carcinoma-associated (CA) genes from the 50 tables given in the specification. The CA proteins are secreted, transmembrane or intracellular proteins. The recombinant nucleic acids are useful for screening for drug candidates for diagnosing or treating carcinomas. Sequences given in ADC85215-ADC85514 represent CA genes of the invention.
                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human; carcinoma associated nucleic acid; CA nucleic acid; gene; ds; carcinoma associated protein; CAP; carcinoma; leukaemia; lymphoma;
                                                                                                                                                                            Sequence 52661 BP; 15800 A; 11000 C; 11083 G; 14778 T; 0 U; 0 Other;
                                                                                                                                                                                                                      Length 52661;
                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                13858 AGGGAGGGAGGAAGGAATTGAAGGAAGGAAGGAAA 13899
                                                                                                                                                                                                                                                                                                      1 AAGGAAGGAGAAAGGAAGGAGTGAAGGAAGGAGTGAAA
                                                                                                                                                                                                                                                            7;
                                                                                                                                                                                                                      DB 10;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human carcinoma associated (CA) nucleic acid #70.
                                                                                                                                                                                                                  Score 30.8; DE
Pred. No. 4.1;
                                                                                                                                                                                                                                                              0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                        ADM74471 standard; DNA; 52661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               30-NOV-2001; 2001US-00997722.
                                                                                                                                                                                                                    73.3%;
83.3%;
                                                                                                                                                                                                                  Query Match 73.3
Best Local Similarity 83.3
Matches 35; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US2004072154-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         01-JUL-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     15-APR-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          cytostatic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ADM74471;
                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 15
```

ö

Gaps

ö

7; Indels

4.1;

0; Mismatches

35; Conservative

Matches

ઠે 셤

Local Similarity

13858 AGGGAGGGAGGAAGGAAGGATTGAAGGAAGGAAA 13899

RESULT 14 ADC85355

1 AAGGAAGGAGGAAAGGAAGGAGTGAAGGAAGGAGTGAAA 42

ö

22-DEC-2000; 2000US-00747377. 02-MAR-2001; 2001US-00798586. Engelhard EK; (MORR/) MORRIS D W. (ENGE/) ENGELHARD E K. WPI; 2004-328562/30 Morris DW,

New carcinoma associated gene or protein, useful for preparing a composition for diagnosing or treating carcinoma e.g., leukemia or lymphoma.

Claim 1; SEQ ID NO 142; 29pp; English

The invention relates to new recombinant nucleic acids. The invention also relates to a host cell comprising a recombinant nucleic acid or expression vector, an expression vector comprising a recombinant nucleic acid, a recombinant protein, a method of screening for drug candidates, a method of screening for a bioactive agent capable of binding to a carcinoma associated protein (GAP) encoded by a nucleotide sequence, a carcinoma associated protein (GAP) encoded by a nucleotide sequence, a carcinoma drug, a method of evaluating the effect of a candidate carcinoma drug, a method of diagnosing carcinoma, a method for inhibiting carcinoma drug to a fact, a method of evaluating the effect of a candidate carcinoma drug comprises adminiatering the diagnosing carcinoma or propensity to carcinoma. A method of evaluating the effect of a candidate carcinoma drug comprises adminiatering the furge to a patient, removing a carcinoma drug comprises adminiatering the furge to a candidate carcinoma drug comprises adminiatering the nucleotide sequence. A method of diagnosing carcinoma comprises determining alterations in the capression or activation of a gene comprising the nucleotide sequence. A method of diagnosing carcinoma comprises determining the expression of the gene from a second normal tissue type from the first individual and comparing the expression indicates that the first individual and somparing the expression of the gene from a second normal tissue type from the first individual as carcinoma. A method of inhibiting the carcinoma comprises administering to a patient an inhibitor to the CAP. Treating carcinoma comprises administering to a patient an inhibitor of CAP. Neutralished the presented manient an inhibitor to for the comprise. Neutralising the effect of a CAP comprises contacting an agent specific for the CAP. The polypeptide specifically binds to the protein encoded by the nucleic acid. It comprises an antibody that specifically binds to the protein encoded by the nucleic acid. The nucleic acid serious acid are useful for preparing a composition for diagnosing or treating carcinoma e.g., leukaemia or lymphoma. This sequence represents a human carcinoma associated (CA) nucleic acid of the invention. Note: The sequence for this patent did not form part of the printed specification but was obtained in electronic format directly from USPTO at seqdata.uspto.gov/sequence.html

Sequence 52661 BP; 15800 A; 11001 C; 11082 G; 14778 T; 0 U; 0 Other;

Gaps 73.3%; Score 30.8; DB 12; Length 52661; 83.3%; Pred. No. 4.1; tive 0; Mismatches 7; Indels 0; 35; Conservative Query Match Best Local Similarity Matches 35; Conservat

ö

ð

Search completed: March 13, 2005, 12:34:23 Job time : 29.5729 secs

```
PAT 22-FEB-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TGAAGGACTCGGCATTGAAGGTGCTTTATCTGCATAATAACCAGCTTCTAGCTGGAGGGC 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence
Sequence
Primer fo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence
Homo sapi
                                                                                                                                                                                                                                            Homo sapi
A novel i
Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                 Sequence
Sequence
Sequence
Sequence
                                                                                                                                                                                                                                                                                                                     Sequence
Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                          A novel i
                                                                                                                                                                                                                                                                                                                                                                                                               Sequence
Sequence
                                        Sequence
                                                                                                                                                                                                                                                                                                                                                                                          Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence
                                                                                                                                                   A novel
   novel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TGAAGGACTCGGCATTGAAGGTGCTTTATCTGCATAATAACCAGCTTCTAGCTGGAGGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TGCATGCAGGGAAGGTCATTAAAGGTGAAGAAGATCAGCGTGGTCCCCAATCGGTGGCTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 Acceptation and a second accordance and a second a seco
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AGGGGGGTCTACACCCTGTGGAGCTCAAGATGGTCCTGAGTGGGGGCGCTGTGCTTCCGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ATGCCAGCCTGTCCCCCGTCATCCTGGGTGTCCAGGGTGGAAGCCAGTGCCTGTCATGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
AR181997
AR302959
AR302959
AR302959
AR302959
AR062311
AR812190
AR7302956
AR302956
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              6; Length 2563;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1
Nicklin,M. and Barton,J.
The il-111 gene and polypeptide products
Patent: WO 0105974-A 1 25-JAN-2001;
Interleukin Genetics, Inc. (US)
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ΩB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             100.0%; Score 2563;
100.0%; Pred. No. 0;
ive 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /mol_type="unassigned DNA"
/db xref="taxon:9606"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ALIGNMENTS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1. .2563
/organism="Homo sapiens"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2563 bp
Sequence 1 from Patent WO0105974.
AX080389
                                                                                                                              AK002125
BD211436
                                                                                                                                                                                                                                                             BD211434
AR181994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AX080389.1 GI:13159840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Homo sapiens (human)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match 100.
Best Local Similarity 100.
Matches 2563; Conservative
   74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
74605
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Homo sapiens
 2220.4
2220.4
2220.4
2220.4
2220.4
1835
                                                                                                                                                 1616.6
1616.6
1616.6
1616.6
1105.2
1195.2
1195.2
1195.2
                                                                                                             1835
1835
                                                                                                                                                                                                                                                                                                                                                                        941.2
941.2
941.2
941.2
941.2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 1
AX080389
LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    REFERENCE
AUTHORS
TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FEATURES
     ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    음
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AX080389 Sequence
AJ242738 Homo sapi
AJ242737 Homo sapi
AX092420 Sequence
AX092420 Sequence
AX454730 Sequence
AX4591208 Sequence
AX359117 Homo sapi
BC024747 Homo sapi
CQ722801 Sequence
                                                                                                                            March 13, 2005, 11:14:57; Search time 11331.9 Seconds (without alignments) 10959.418 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Homo sapi
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Homo sapi
Homo sapi
Homo sapi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence
Sequence
Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                            1 aggggagtctacaccctgtg......ataatatgcagagaagga 2563
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Description
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AJ242738
AJ242737
AJ242737
AX454730
AX451208
AX359117
BC024747
CQ722801
AR181995
AR302957
AR302957
AR302957
AR302957
AR302957
AR302957
AR302957
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AX080431
AJ271338
AC016724
AF216693
                                                                                                                                                                                                                                                                                                                                                                            9416466
                     version 5.1.6
- 2005 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                      4708233 segs, 24227607955 residues
                                                                                                                                                                                                                                                                                                                                                                        Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SUMMARIES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AX080431
HSA271338
AC016724
AF216693
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           summaries
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AX080389
HSA242738
HSA242737
AX082420
AX454730
AX451208
AX359117
BC024747
BC022801
BD211435
AR181995
AR302957
AX069309
AF186094
                                                                                            nucleic search, using sw model
                                                                                                                                                                                                                                                                              IDENTITY NUC
Gapop 10.0 , Gapext 1.0
                       GenCore (c) 1993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 su
                                                                                                                                                                                                                                                                                                                                                                                                             seq length: 0
seq length: 200000000
                                                                                                                                                                                                     US-09-617-720A-1
2563
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             90 ba: *
90 htg: *
90 oan: * *
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query
Match Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   25598
25598
25598
25598
26598
26448
26448
26448
26448
26448
26448
1940
1940
4604
                                        Copyright
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GenEmbl:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       97.1
97.1
87.2
87.0
86.6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      98.1
98.1
98.1
98.1
97.7
97.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         6...
7...
99...
110...
113...
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2514.2
25514.2
25514.2
25514.2
25514.2
25512
2564.2
25488.4
25488.4
25488.4
25488.4
25488.4
25488.4
25488.4
2535.6
                                                                                                                                                                                                                                                                              Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score
                                                                                                                                                                                                                          Perfect score:
                                                                                                                                                                                                                                                                                                                                                                                                             Minimum DB e
Maximum DB e
                                                                                            OM nucleic
                                                                                                                                                                                                                                             Sequence:
                                                                                                                                                                                                                                                                                                                                        Searched:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Database
                                                                                                                                Run on:
```

ô

Result Š. us-09-617-720a-1.rge

ß
0
0
2005
40
4
••
22
N
_
0
10
Н
4
Н
14 1
14 1
14 1
4
Mar 14 1
14 1

103	120 CTGCATGCAGGGAAGGTCATTAAAGGTGAAGATCAGCGTGGTCCCCAATCGGTGGCTG 179	180 GATGCCAGCCTGTCCCCCGTCATCCTGGGTGCAGGTGGAAGCCAGTGCCTGTCATGT 239	240 GGGGTGGGGGAGAGCCGACTCTAACACTAGAGCCAGTGAACATCATGGAGCTCTATCTT 299	300 GGTGCCBAGGAATCCAAGAGCTTCACCTTCTACCGGGGACATGGGGCTCACCTCCAGC 359	360 TTCGAGTCGGCTGCTACCCGGGCTGGTTCCTGTGCACGGTGCCTGAAGCCGATCAGCT 419	420 GTCAGACTCACCCAGCTTCCCGAGAATGGTGGCTGGAATGCCCCCATCACAGACTTCTAC 479	463	523 TTCCAGCAGTGTGACTAGGCAACGTGCCCCCCCAGAACTCCCTGGGCAGAGGCAGGC	540 GGTGAGGGGTGAGTGGAGGACCCATGGCGGACAATCACTCTTTCTGCTCTCAGGACCC 599	600. CCAGGTCTGACTTAGTGGGCACCTGACCACTTTGTCTTCTGGTTCCCAGTTTGCATAAAT [	660 TCTGAGATTTGGAGCTCAGGGTCCTCCCCCCACTGGATGGTGCTGTGGAA	703 TCTGAGATTTGGAGCTCCAGGGTCCTCCCCCACTGGATGGTGCTACTGTTGTTGTTGTAGAAAA	720 CCTTGTAAAAACCATGTGGGGTAAACTGGGAATAACATGAAAAGATTTCTGTGGGGGTGG 779 	780 GGTGGGGGGGTGCTGGGAATCATTCCTGCTTAATGGTAACTGACAGTGTTACCCTGAGC 839	840 CCCGGGCGACCCATCCATIGAGCCTTATAGGTCATAGAGAGTCATAGAGTCATAGAGAGTCATAGAGAGTCATAGAGAGTCATAGAGAGTCATAGAGAGTCATAGAGAGTCATAGAGAGTCATAGAGAGTCATAGAGAGTCATAGAGAGAG	883 CCCGCAGGCCAACCCATCCCCAGTTGAGCCTTATAGGGTCAGTATCCCACATGAAGT 942	900 CCTCTCACTCACCACTGTGCAGGAGGAGGAGGTGGTCATAGAGTCAGGGATCTATGGCCC 959	960 TIGGCCCAGCCCACCTTTCCCTTTATCCTTGTGTATGCTATGCTATCCTATC	1003 TIGGCCCAGCCCCATCCCTTTATCCTGCCACTCTATGCTACCTTTCCTATC 1062	1020 TCTTCCCTCATCATCTTGTGGGCATGAGGAGGTGGTGATGTCAGAAGAAATGGTTCG 1079	1080 AGCTCAGAAGATAAAGTAAGTTAGGTATGCTGATCCTCTTTTAAAAACCCAAGATACA 1139 	1140
qa	\$ A	S G	& g	& A	& g	à	<u>අ</u> දි	2 A	\( \frac{1}{2} \)	ે જે કે	ð	qa	음 성	જે ઇ	8 &	q	γς 4 <u>α</u>	ò	<b>q</b>	& A	Qy Db	ò
  AGTG2	Qy         2461         AAGCAGAGACTCTGTGAGATAATCGATGTTTGTTTTAAGTTGCTCAGTTTTGGTCTA         2520           Db         2461         AAGCAGAGACTCTGTGAGATAATCGATGTTTGTTGTTTTTAAGTTGCTCAGTTTTGGTCTA         2520	Oy 2521 ACTIGITATGCAGCAATAGATAAATATGCAGAAAAGAGA 2563 	100	ION Home sapiens mRNA for interleukin-1-like protein 1 transcript 2.	VEKAION AUZ42738.1 G1:6165335 SOURCE ILILI gene; interleukin-1-like protein 1. SOURCE Homo sapiens (human) ORGANISM Homo sapiens		AUTHORS Barton, J.L., Herbst, R., Bosisio, D., Higgins, L. and Nicklin, M.J. TITLE A tissue specific IL-1 receptor antagonist homolog from the IL-1 TI-11 TI-12 TI-18 and TI-18 antachists antachists			J &	rce	/www.refe="taxon:9606" /db_xref="taxon:9606" /chromosome="2"		gene 12604 /gene="IL1L1" 73540	/grunction="putative cytokine" /function="putative cytokine" /codon state=1 /codon state=1	/produce="incerleukin-1-like protein 1" /protein_id="CABS9823.1" /db_xref="G1:6165336"	/db_xref="GOA:Q9UBHO" /db_xref="UniProt/Swiss-Prot:Q9UBHO" /translation="MVLSGALCFRMKDSALKVLYLHNNOLLAGGLHAGKVIKGEEISV		polyA_site 2604 /gene="IL1L1"	y Match  Docal Similarity 99.9%; Predio No 0;  Docal Similarity 99.9%; Predio No 0;  Docal Similarity 90.9%; Predio No 0;	1 AGGGGAGTCTACACCCTGTGG-AGCTCAAGATGGTCCTGAGTGGGCGCTGTGCTTCCGA 59	Db 43 AGGGGAGTCTACACCCTGTGGAAGCTCAAGATGGTCCTGAGTGGGCGCTGTGCTTCCGA 102 Qy 60 ATGAAGGACTCGGCATTGAAGGTGCTTTATCTGCATAATAACCAGCTTCTAGCTGGAGGG 119

엄

ઠે

8 8

6 B 6

g

g

à

6 6 6 6

ò

```
/protein_id="CAB59822.1"
/bd xref="d1:616534"
/db xref="d1:616534"
/db xref="d0:09UBH0"
/db xref="COA:09UBH0"
/db xref="UniProt/Swiss-Prot:09UBH0"
/db xref="UniProt/Swiss-Prot:09UBH0"
/db xref="UniProt/Swiss-Prot:09UBH0"
/db xref="UniProt/Swiss-Prot:09UBH0"
/db xref="UniProt/Swiss-Prot-10UBH0"
/db xref="UniProt/Swiss-Prot-10UBH0"
/db xref="UniProt/Swiss-Prot-10UBH0"
/db xref="UniProt/Swiss-Prot-10UBH0"
/db xref="UniProt/Swiss-Prot-10UBH0"
/db xref="UniProt-10UBH0"
/db xref="UniProt
                                                                                                                           2399
                                                                                                                                                                                                                              2459
                                                                                                                                                                                                                                                                                                                                      2519
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       HSA242737 2613 bp mRNA linear PRI 18-APR-2002
Homo sapiens mRNA for interleukin-1-11ke protein-1 (ILIL1 gene),
transcript 1.
                                                                        2381
                                                                                                                                                                           2441
                                                                                                                                                                                                                                                                              2501
                                                                                                                                                                                                                                                                                                                                                                                      2561
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Barton, J.L., Herbst, R., Bosisio, D., Higgins, L. and Nicklin, M.J. A tissue specific IL-1 receptor antagonist homolog from the IL-1 cluster lacks IL-1, IL-1ra, IL-18 and IL-18 antagonist activities Eur. J. Immunol. 30 (11), 3299-3308 (2000)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      and
                                                  2322 AGGITATAAAAAGACACIGCAGCITCTACTIGAGCCCTCTCTCTCTGCCACCCACCGCCCC
                                                                                                                                                                                                                                                        TAAAAGAGACTTACGTGGTAAAAAATGAAGTCTCCTGCCCACAGCCACATTAGTGAACTA
                                                                                                                                                                                                                                                                                                                                                                 2502 GAAGCAGAGACTCTGTGAGATAATCGATGTTTGTTGTTGTTAAGTTGCTCAGTTTTGGTCT
                                                                                                                                                                           caarcrarcraecreecreecreesesaageragereecarecrareaseagecra
                                                                                                                                                                                                                                TAAAGAGACTTACGTGGTAAAAATGAAGTCTCCTGCCCACACGCCACATTAGTGAACCTA
                                                                                                                                                                                                                                                                                                                                   GAAGCAGAGACTCTGTGAGATAATCGATGTTTGTTTTAAGTTGCTCAGTTTTGGTCT
                                                                                                                             CAATCTATCTTGGCTCACTCGCTCTGGGGGAAGCTAGCTGCCATGCTATGAGCAGGCCTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Direct Submission
Submitted (09-JUN-1999) Nicklin M.J., Division of Molecular a Submitted (09-JUN-1999) Nicklin M.J., Division of Molecular Genetic Medicine, University of Sheffield, Royal Hallamshire Hospital, Glossop Road, Sheffield, S10 2JF, UNITED KINGDOM Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                         AACTTGTTATGCAGCAATAGATAAATAATATGCAGAGAAAGAG 2562
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AACTTGTTATGCAGCAATAGATAATAATATAGCAGAGAAAGAG 2604
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             product="interleukin-1-like protein-1"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     protein-1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            IL1RN"
                             AGGTTATAAAAGACACTGCAGCTTCTACTTGAGCCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /function="putative cytokine'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/chromosome="2"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /tissue_type="placenta"
/note="between IL1B and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AJ242737.1 GI:6165333
ILL1L1 gene; interleukin-1-like
Homo sapiens (human)
Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            map="2q12-13"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          12. .549
gene="IL1L1"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /gene="IL1L1"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /gene="IL1L1"
/citation=[1]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   11093146
2 (bases 1 to 2613)
Nicklin,M.J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       .2613
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Eur. J. II
20545212
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AJ242737
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   polyA_site
                                                                                                                                                                                2382
                                                                                                                                                                                                                                                                                   2442
                                                                                                                                                                                                                                                                                                                                                                                                                                            2520
                          2280
                                                                                                                             2340
                                                                                                                                                                                                                                   2400
                                                                                                                                                                                                                                                                                                                                      2460
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2562
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             REFERENCE
AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MEDLINE
PUBMED
REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AUTHORS
TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 3
HSA242737
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FEATURES
                                                                g
                                                                                                                                                                g
                                                                                                                                                                                                                        8
                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                         엄
                                                                                                                                                                                                                                                                                                                                                                                                                                         ó
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                          ઠ
                                                                                                                             à
                                                                                                                                                                                                                                                                                                                                 \delta
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2159
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2219
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1919
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1979
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2039
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2099
                                                                                                                                                                                                                                                           1379
                                                                                                                                                                                                                                                                                                           1422
                                                                                                                                                                                                                                                                                                                                                              1439
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1499
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1542
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1559
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1602
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1619
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1679
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1739
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1799
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1859
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1901
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2021
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2081
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2141
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2201
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2261
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2321
                                                                                                                                                        1319
                                                                                                                                                                                                           1362
                                                                                                                                                                                                                                                                                                                                                                                                                   1482
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1961
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAGTIGICITIGIGACCCAATAGAATATGGCAGAAGTGATGGCATGCCACTTCCAAGATT 2279
ATCAAAATCCCAGATGCTGGTCTCTATTCCCATGAAAAAGTGCTCATGACATATTGAGAA 1242
                                                                             1303 TATTICTITATAGAAAAAAGTCTGGAAGAGTTTACTICAATIGTAGCAATGTCAGGGTGG
                                                                                                                                                                                                                                                                                              TGGCAGTATAGGTGATTTTTCTTTTAATTCTGTTAATTTATCTGTATTTTCCTAATTTTTC
                                                                                                                                                                                                                                                                                                                                                                                              TACAATGAAGATGAATTCCTTGTATAAAATAAGAAAAGAAATTAATCTTGAGGTAAGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GAGCAGACATCATCTCTGATTGTCCTCAGCCTCCAATTCCCCAGAGTAAATTCAAATTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CACTGAGGAGGCTGTGCTGAGTTTGTGTGGCTGGAATCTCTGGG-AAGGAACTTAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ATTGGATCCAGTCTCTAAGAAGGCTGCTGTACTGGTTGAATTGTGTCCCCCCTCAAATTCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CTGTTTTAAGCCACCAAGGATAATTGGTTACAGCAGCTCTAGGAAACTAATACAGCTGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TATTICITIAIAGAAAAAAGICIGGAAGAGITIACIICAATIGIAGCAATGICAGGGTGG
                                                                                                                                                                                                                                                                                                                                                                 TACAATGAAGATGAATTCCTTGTATAAAATAAGAAAAGAAATTAATCTTGAGGTAAGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GAGCAGACATCATCTCTGATTGTCCTCAGCCTCCAATTCCCCAGAGTAAATTCAAATTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ATCGAGCTCTGCTGCTCTGGTTGTTGTAGTAGTGATCAGGAAACAGATCTCAGCAAAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ATCGAGCTCTGCTCTGGTTGGTTGTAGTAGTGATCAGGAAACAGATCTCAGCAAAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CACTGAGGAGGAGGCTGTGCTGAGTTTGTGTGGCTGGAATCTCTGGGTAAGGAACTTAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GAACAAAATCATCTGGTAATTCTTTCCTAGAAGGATCACAGCCCCTGGGATTCCAAGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CATCCTTCTTGGAATCTCAGTCTGTGAGTTTATTTGGAGATAAGGTCTCTGCAGATGTAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1782 CATCCTTCTTGGAATCTCAGTCTGTGAGTTTATTTGGAGATAAGGTCTCTGCAGATGTAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TTAGTTAAGACAAGGTCATGCTGGATGAAGGTAGACCTAAATTCAATATGACTGGTTTCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Tragitraagacaaggicaigciggaigaaggiagacciaaaiicaaiaigaciggiiicc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TTGTATGAAAAGGAGGACACACAGAGACAGAGGAGACGCGGGGAAGACTATGTAAAGATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAGGCAGAGATCGGAGTTTTGCAGCCACAAGCTAAGAAACACCAAGGATTGTGGCAACCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAGGCAGAGATCGGAGTTTTGCAGCCACAAGCTAAGAAACACCAAGGATTGTGGGCAACCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TCAGAAGCTTGGAAGAGGCAAAGAATTCTTCCCTAGAGGCTTTAGAGGGATAACGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            rcrecreanaccrranteredacrrecaecerecreaneanaanaanaartree
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CTGTTTTAAGCCACCAAGGATAATTGGTTACAGCAGCTCTAGGAAACTAATACAGCTGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GACCTACTTACAAAGTGGCATATATTGCAATTTATTTAATTTAAAAGATACCTATTTATA
                                                                                                                                                                                                                                                              TGGCAGTATAGGTGATTTTTTTTTAATTCTGTTAATTTTATCTGTATTTCCTAATTTTTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GAACAAAATCATCTGGTAATTCTTTCCTAGAAGGATCACAGCCCCTGGGATTCCAAGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ATTGGATCCAGTCTCTAAGAAGGCTGCTGTACTGGTTGAATTGTGTCCCCCCTCAAATTCA
                                                                                                        1243
                                                                                                                                                                                                                                                                                                              1363
                                                                                                                                                                                                                                                                                                                                                                 1380
                                                                                                                                                                                                                                                                                                                                                                                                                 1423
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1543
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1560
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1603
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1620
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1662
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1680
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1722
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1740
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1800
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1842
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1860
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1902
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1920
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1962
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1980
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2022
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2040
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2082
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2142
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2202
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2220
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2262
     1183
                                                     1200
                                                                                                                                                                                                                                                              1320
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1483
                                                                                                                                                           1260
```

g

8 6 8 6 8

ઠ

유 상 음 8 8 8 8

ò

q

g

ò

음 상 음

ò

**6 6 6** 

8 6 8

8 6 8 6

8 6 8 6

**68686** 

<u> የ</u>

<del>ያ</del> ይ

8 6 8 6 8

음 성

දු පු

```
2435
                                                                         2459
                                                                                                    2495
                                                                                                                                    2519
                                                                                                                                                                2555
                                                                                                                                                                                                                                                                                                     06-JUL-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             m
.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Compositions and methods for the diagnosis and treatment of disorders involving anglogenesis
Patent: WO 0208284-A 315 31-JAN-2002;
Genentic, Inc. (US); Jaker, Kevin P. (US); Ferrara, Napoleone (US); Gerber, Hanspeter (US); Gerritsen, Mary E. (US); Goddard, Audrey (US); Goddowski, Paul J. (US); Gurney, Austin L. (US); Hillan, Kenneth J. (US); Marsters, Scot A. (US); Pan, James (US); Pan, Nicholas F. (US); Stephan, Jean-Philippe F. (US); Watanabe, Colin K. (US); Williams, P. Mickey (US); Wood, William
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   157
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           217
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       277
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     241 GGGTGGGGCAGGAGCCGACTCTAACACTAGAGCCAGTGAACATCATGGAGCTCTATCTTG 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     97
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         9
                                                                                                                                                                                                                                                                                                                                                                                                            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                      Baker, K.P., Ferrara, N., Gerber, H., Gerritsen, M.E., Goddard, A., Godowski, P.J., Gurney, A.L., Hillan, K.J., Marsters, S.A., Pan, J., Paoni, N.F., Stephan, J.P., Watanabe, C.K., Williams, P.M., Wood, W.I. and Ye, W.
                             2376 CAATCTATCTTGGCTCACTCGCTCTGGGGAAGCTAGCTGCCATGCTATGAGCAGGCCTA
                                                                                                                                  2460 GAAGCAGAGACTCTGTGAGATAATCGATGTTTGTTGTTTTAAGTTGCTCAGTTTTGGTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         38 AGGGGAGTCTACACCCTGTGGAGCTCAAGATGGTCCTGAGTGGGCGCTGTGCTTCCGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    98 TGAAGGACTCGGCATTGAAGGTGCTTTATCTGCATAATAACCAGCTTCTAGCTGGAGGGC
                                                                         2436 TAAAGAGACTTACGTGGTAAAAATGAAGTCTCCTGCCCACAGCCACATAGTGAACCTA
                                                                                                                                                  2496 GAAGCAGAGACTCTGTGAGATAATCGATGTTTGTTTTTAAGTTGCTCAGTTTTGGTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 AGGGGAGTCTACACCCTGTGGAGCTCAAGATGGTCCTGAGTGGGGGCGCTGTGCTTCCGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     61 TGAAGGACTCGCCATTGAAGGTGCTTTATCTGCATAATAACCAGCTTCTAGCTGGAGGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                121 TGCATGCAGGGAAGGTCATTAAAGGTGAAGAGATCAGCGTGGTCCCCCAATCGGTGGCTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                181 AIGCCAGCCTGTCCCCCGTCATCCTGGGTGCAGGTGGAAGCCAGTGCTGTGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         218 ATGCCAGCCTGTCCCCCGTCATCCTGGGTGTCCAGGGTGGAAGCCAGTGCCTGTCATGTG
                                                                                                                                                                                                                                                                                                     PAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length 2598;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           3;
                                                                                                                                                                                            linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                . 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           .
8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               8
                                                                                                                                                                                                                                                                                                     DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 2514.2;
Pred. No. 0;
0; Mismatches
                                                                                                                                                                                                                                                                                                    AX454730 2598 bp C
Sequence 315 from Patent WO0208284.
AX454730

    . 2598
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                              AX454730.1 GI:21713989
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match 98.1%;
Best Local Similarity 99.6%;
Matches 2552; Conservative (
                                                                                                                                                                                                                                                                                                                                                                               sapiens (human)
sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         I. (US)
                                                                                                                                                                                                                                                                                                                                                                       .
Homo
Homo
                 2340
                                                                                                                                                                                                                                                                    RESULT 5
AX454730
LOCUS
DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        source
                                                                                                                                                                                                                                                                                                                                                                                                                                         REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DRIGIN
               $ 6 6 6 6
                                                                                                                                                      셤
                                                                                                                                                                                    8
                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   6 6 6 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           8
                                                                                        1379
                                                                                                                                                   1439
                                                                                                                                                                                1476
                                                                                                                                                                                                               1499
                                                                                                                                                                                                                                           1536
                                                                                                                                                                                                                                                                         1559
                                                                                                                                                                                                                                                                                                                                                                                                                                                        1739
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1859
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1896
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1956
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2016
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2039
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2076
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2099
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2136
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2159
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2256
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2315
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2339
                                                                                                                                                                                                                                                                                                                                1537 ATCGAGCTCTGCTCTGGTTGGTTGTAGTAGTGATCAGGAACAGATCTCAGCAAAGC 1596
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ATTGGATCCCAGTCTCTAAGAAGGCTGCTGTAGGTTGAATTGTGTCCCCCCCAAATTCA 1776
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CATCCTTCTTGGAATCTCAGTCTGTGAGTTTATTTGGAGATAAGGTCTCTGCAGATGTAG 1799
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CATCCTTCTGGAATCTCAGTCTGTGAGTTTATTTGGAGATAAGGTCTCTGCAGATGTAG 1836
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1860 TTGTATGAAAAGGAGAGACACAGAGACAGAGAGAGGGGGGGAAGACTATGTAAAGATG 1919
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1920 AAGGCAGAGATCGGAGTTTTGCAGCCACAAGCTAAGAAACACCCAAGGATTGTGGGCAACCA 1979
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TTAGTTAAGACAAGGTCATGCTGGATGAAGGTAGACCTAAATTCAATATGACTGGTTTCC
                            1417 TACAATGAAGATGAATTCCTTGTATAAAAATAAGAAAAGAAATTAATCTTGAGGTAAGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1837 TIAGTIAAGACAAGGICATGCTGGATGAAGGTAGACCTAAATTCAATATGACTGGTTTCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2077 TCTGCTGAAACCTTAATCTCAGACTTCCAGCCTCCTGAACGAAGAAGAAAAATTTCGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1380 TACAATGAAGATGAATTCCTTGTATAAAAATAAGAAAAGAAATTAATCTTGAGGTAAGCA
                                                                                                                                                                                                                                                                         ATCGAGCTCTGCTCTGGTTGGTTGTAGTAGTGATCAGGAAACAGATCTCAGCAAAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                         ATTGGATCCAGTCTCTAAGAAGGCTGCTGTACTGGTTGAATTGTGTCCCCCCTCAAATTCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1980 TCAGAAGCTTGGAAGAGGCAAAGAAGAATTCTTCCCTAGAGGCTTTAGAGGGATAACGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAGTIGICITITGIGACCCAATAGAATATGGCAGAAGTGATGGCATGCCACTICCAAGATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2257 AAGTTGTCTTTGTGA-CCAATAGAATATGGCAGAAGTGATGGCATGCCACTTCCAAGATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2280
                                                                                                                                                                                                                                                                        1500
                                                                                                                                                                                                                                                                                                                                                                                             1620
                                                                                                                                                                                                                                                                                                                                                                                                                           1657
                                                                                                                                                                                                                                                                                                                                                                                                                                                         1680
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1717
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1740
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1777
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1800
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1897
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1957
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2040
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2137
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2220
```

음 상 음

1410 PROMIGMAGNICANTICATION MANABEM GAMAGNATT PARTICIPATION 1135  1410 ACCACACACACACACACACACACACACACACACACACA
8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6
101 Green-Market Character Acceptance Control Market Control Marke

(CB 1 (bases 1 to 2598)

RS Clark, H.F., Gurney, A.L., Abaya, E., Baker, K., Baldwin, D., Brush, J., Chow, B., Chui, C., Crowley, C., Currell, B., Deuel, B., Chon, J., Chow, B., Chui, C., Crowley, C., Currell, B., Deuel, B., Chon, J., Eaton, D., Roster, J., Grimaldi, C., Gu, O., Hass, P.E., Hang, A., Kim, H.S., Klimowski, L., Jin, Y., Johnson, S., Lee, J., Lewis, L., Liao, D., Mark, M., Robbie, E., Sanchez, C., Schoenfeld, J., Sehbagirt, S., Simmons, L., Singh, J., Smith, V., Sthom, B., Vangs, A., Vandlen, R., Watanabe, C., Wieand, D., Woods, K., Xie, M.H., Yansura, D., Yi, S., Yu, G., Yuan, J., Zhang, M., Zhang, Z., Goddard, A., Wood, W.I. and Godowski, P. The Secreted Protein Discovery Initiative (SPDI), a Large-Scale Effort to Identify Novel Human Secreted and Transmembrane Proteins:
A Bloinformatics Assessment.

Direct Submission Submitted (01-MG-2001) Department of Bioinformatics, Genentech, Inc., 1 DNA Way, South San Francisco, CA 94080, USA Location/Qualifiers

1. .2598 /organism="Homo sapiens'

/mol\_type="mRNA" /db\_xref="taxon:9606" /clone="DNA96787"

.2598

Genome Res. 13 (10), 2265-2270 (2003)

(bases 1 to 2598)

Clark, H.F 12975309

Homō sapiens (human) Homo sapiens Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

```
source
                                                                                                                                                          JOURNAL
PUBMED
REFERENCE
AUTHORS
                 ORGANISM
                                                                                                                                                                                                                                                                           gene
                                                                                                                                                                                                      JOURNAL
KEYWORDS
SOURCE
                                             REFERENCE
                                                    AUTHORS
                                                                                                                                                                                                                        FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           \delta
                                                                                                                                                                                                                                                                                                                                                                                                                                      ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                    엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                        2219
                                                                                                                                                                                                                                                                                                                                                                                           2315
                                                                                                                                                                                                                                                                                                                                                                                                             2339
                                                                                                                                                                                                                                                                                                                                                                                                                             2375
                                                                                                                                                                                                                                                                                                                                                                                                                                               2399
                                                                                                                                                                                                                                                                                                                                                                                                                                                                2435
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2459
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2495
                                                                                                                                                                                                                                                                                   2136
                                                                                                                                                                                                                                                                                                      2159
                                                                                                                                                                                                                                                                                                                       2196
                                                                                                                                                                                                                                                                                                                                                                         AAGTIGICITIGIGACCCAATAGAATAIGGCAGAAGIGAIGGCAIGCCACTICCAAGAIT 2279
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2496 GAAGCAGAGACTCTGTGAGATAATCGATGTTTGTTGTTTTAAGTTGCTCAGTTTTGGTCT 2555
                                                                                                                                                                                                                                 2039
                                                                                                                                                                                                                                                                   2099
                                                                                                                                                                                                                                                                                                                                                        AAAATGATCCCTGTCTCCTCGTGTTTACATTCTGTGTGTCCCCTCCCACAATGTACCA 2256
                                                      1739
                                                                                        1799
                                                                                                                          1859
                                                                                                                                            1896
                                                                                                                                                             1919
                                                                                                                                                                              1956
                                                                                                                                                                                                1979
                                                                                                                                                                                                                2016
                                                                                                                                                                                                                                                  2076
                                                                        1776
 CACTGAGGAGGAGGCTGTGAGTTTGTGTGGCTGGAATCTCTGGGTAAGGAACTTAAA 1656
                   GAAGCAGAGACTCTGTGAGATAATCGATGTTTGTTGTTTAAGTTGCTCAGTTTTGGTCT
                                                                                                                                                                                                                                                                                                                                                                                         AAGTTGTCTTTGTGA-CCAATAGAATATGGCAGAAGTGATGGCATGCCACTTCCAAGATT
                                                                                                                                                                                                                                                                                                                                                                                                                                               CAATCTATCTTGGCTCACTCGCTCTGGGGGAAGCTAGCTGCCATGCTATGAGCAGGCCTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TAAAGAGACTTACGTGGTAAAAATGAAGTCTCCTGCCCACAGGCCACATAGTGAACCTA
                                                                                                                                                                                                                                                                                                                                                                                                                      CATCCTTCTTGGAATCTCAGTCTGTGAGTTTATTTGGAGATAAGGTCTCTGCAGATGTAG
                                                                                                   ATTGGATCCAGTCTCTAAGAAGGCTGCTGTACTGGTTGAATTGTGTCCCCCCTCAAATTCA
                                                                1717 ATTGGATCCAGTCTCTAAGAAGGCTGCTGTACTGGTTGAATTGTGTCCCCCTCAAATTCA
                                                                                                                                                             TTGTATGAAAAGGAGAGACACAGAGACAGAGAGAGGCGGGGAAGACTATGTAAAGATG
                                                                                                                                                                            TTGTATGAAAAGGAGAGACACAGAGACAGAGGAGGAGGCGGGGAAGACTATGTAAAGATG
                                                                                                                                                                                               1920 AAGGCAGAGATTGGCAGACACAAGCTAAGAAACACCAAAGATTGTGGCAACCA
                                                                                                                                                                                                                                  TCAGAAGCTTGGAAGAGGCAAAGAAGAATTCTTCCTAGAGGCTTTAGAGGGATAACGGC
                                                                                                                                                                                                                                           2017 TCAGAAGCTTTGGAAGAGGCAAAGAAGAATTCTTCCCTAGAGGCTTTAGAGGGATAACGGC
                                                                                                                                                                                                                                                                    CTGTTTTAAGCCACCAAGGATAATTGGTTACAGCAGCTCTAGGAAACTAATACAGCTGCT
                                                                                                                          TTAGTTAAGACAAGGTCATGCTGGATGAAGGTAGACCTAAATTCAATATGACTGGTTTCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2520 AACTIGITAIGCAGCAATAGATAAATAATATGCAGAGAAAGAG 2562
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2376
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2460
                                                                                                                                                                                                                                                                       2040
                                                                                                                                                                                                                                                                                                         2100
                                                                                                                                                                                                                                                                                                                          2137
                                                                                                                                                                                                                                                                                                                                           2160
                                                                                                                                                                                                                                                                                                                                                                                              2257
                                                                                                                                                                                                                                                                                                                                                                                                               2280
                                                                                                                                                                                                                                                                                                                                                                                                                                 2316
                                                                                                                                                                                                                                                                                                                                                                                                                                                   2340
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2400
                                                                                                                                                                                                                                     1980
                                                          1680
                                                                                            1740
                                                                                                                              1800
                                                                                                                                                                1860
                                                                                                                                                                                  1897
                                                                                                                                                                                                                   1957
                                                                                                                                                                                                                                                                                                                                                             2197
                                                                                                                                                                                                                                                                                                                                                                              2220
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2436
      1597
                        1620
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                            6 6 6
                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                               d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8
                                                                                                                                                                                                                                                                                                                          В
                                                                                                                                                                                                                                                                                                                                           Ś
                                                                                                                                                                                                                                                                                                                                                                                                                                                  8
                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                        ò
                                                  8
                                                                        ద
                                                                                           8 6
                                                                                                                             ò
                                                                                                                                          유
                                                                                                                                                            8
                                                                                                                                                                             g
                                                                                                                                                                                                 ò
                                                                                                                                                                                                               g
                                                                                                                                                                                                                               ℰ
                                                                                                                                                                                                                                                   임
                                                                                                                                                                                                                                                                       ò
                                     요
                       ò
```

/protein\_id="AAQ89475.1" /db\_xref="GI:37183351"

'product="IL1HY1" codon start=1

/locus tag="UNQ1896" 67. .534 /locus tag="UNQ1896" /note="PRO4342"

CDS

/translation="MVLSGALCFRWKDSALKVLYLHNNQLLAGGLHAGKVIKGEEISV VPNRWLDASLSPVILGVQGGSQCLSCGVGQEPTLTLEPVNIMELYLGAKESKSFTFYR RDMGLTSSFESAAYPGWFLCTVPEADQPVRLTQLPENGGWNAPITDFYFQQCD" 3, 300 337 GIGCCAAGGAATCCAAGAGCTTCACCTTCTACCGGCGGGACATGGGGCTCACCTCCAGCT 360 397 120 180 217 240 157 9 97 241 GOGTGGGGCAGGAGCCGACTCTAACACTAGAGCCAGTGAACATCATGAAGCTCTATCTTG 61 TGAAGGACTCGCCATTGAAGGTGCTTTATCTGCATAATAACCAGCTTCTAGCTGGAGGGC TGCATGCAGGGAAGGTCATTAAAGGTGAAGAGATCAGCGTGGTCCCCCAATCGGTGGCTGG 181 ATGCCAGCCTGTCCCCGTCATCCTGGGTGTCCAGGGTGGAAGCCAGTGCCTGTCATGTG AGGGGAGTCTACACCCTGTGGAGCTCAAGATGGTCCTGAGTGGGGCGCTGTGCTTCCGAA Gaps 3; Length 2598; Indels 8; DB 9; Query Match
Best Local Similarity 99.6%; Pred. No. 0;
Matches 2552; Conservative 0; Mismatches 218 301 338 121 ORIGIN 셤 à 셤

RESULT 7
AY359117
LOCUS
DEFINITION
ACCESSION
VERSION

AY359117 2598 bp mRNA linear PRI 03-OCT-2003 Homo sapiens clone DNA96787 IL1HY1 (UNQ1896) mRNA, complete cds. AY359117 AY359117.1 GI:37183350

us-09-617-720a-1.rge

용

```
/translation="MVLSGALCFRNKDSALKV1YLHNNQLLAGGLHAGKVIKGEEISV
VPNRWLDAGLSPVILGVQGGSQCLSCGVGQEPTLTLEPVNIMELYLGAKESKSFTFYR
RDMGLTSSFESAAYPGWFLCTVPEADQPVRLTQLPENGGWNAPITDFYFQQCD"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TGCATGCAGGGAAGGTCATTAAAGGTGAAGAGATCAGCGTGGTCCCCAATCGGTGGCTGG 180
                                                                      //note="synonyms: FIL1(DELTA), FIL1D, IL1RP3, IL1HY1, FIL1.
IL1L1, MGC29840"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    601 CAGGICIGACTIAGIGGGCACCTGACCACTITGICTICTGGTICCCCAGTITGCATAAAIT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CTGAGATTTTGGAGCTCAGGGTCCTCCCCCCACTGGATGGTGCTACTGCTGTGGAAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TCCAGCAGTGTGACTAGGGCAACGTGCCCCCAGAACTCCCTGGGCAGAGCCAGCTCGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 541 grandagegrandragaganca coccaracega caarca crotricrecrotranga accoc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TGAAGGACTICGGCATTGAAGGTGCTTTATCTGCATAATAACCAGCTTCTAGCTGGAGGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GTGCCAAGGAATCCAAGGTTCACCTTCTACCGGCGGGACATGGGGGCTCACCTCCAGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TCAGACTCACCCAGCTTCCCGAGAATGGTGGCTGGAATGCCCCCATCACAGACTTCTACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 AGGGGAGTCTACACCCTGTGGAGCTCAAGATGGTCCTGAGTGGGGGGCGCTGTGCTTCCGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                165 TGAAGGACTCGGCATTGAAGGTGCTTTATCTGCATAATAACCAGCTTCTAGCTGGAGGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         181 ATGCCAGCCTGTCCCCCGTCATCCTGGGTGGAAGCCAGTGCTGTGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TCGAGTCGGCTGCCTACCCGGGCTGGTTCCTGTGCACGGTGCCTGAAGCCGATCAGCCTG
                                                                                                                                                                                                                                                                                                                                                                                                                             Length 2692;
                                                                                                           ū
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     10; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                 DB 9;
                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
98.0%; Score 2512; D
Best Local Similarity 99.5%; Pred. No. 0;
Matches 2551; Conservative 0; Mismatches
            /note="Vector: pCMV-SPORT6"
1. .2692
lab host="DH10B"
                                                       /gene="IL1F5"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     764
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         405
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    121
                                               gene
                                                                                                                                                                   CDS
                                                                                                                                                                                                                                                                                                                                                                                                 ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      윤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                            Strausberg, R.L., Feingold, E.A., Grouse, L.H., Derge, J.G.,
Klausner, R.D., Collins, F.S., Wagner, L., Shenmen, C.M., Schuler, G.D.,
Klausner, R.D., Collins, F.S., Wagner, L., Shenmen, C.M., Schuler, G.D.,
Altschul, S.F., Zeeberg, B., Buetow, K.H., Schaefer, C.F., Bhat, N.K.,
Hopkins, R.F., Jordan, H., Moore, T., Max, S.I., Wang, J., Hsieh, F.,
Diatchenko, L., Marusina, K., Farmer, A.A., Rubin, G.M., Hong, L.,
Stapleton, M., Soares, M.B., Bonaldo, M.F., Casavant, T.L.,
Schetz, T.B., Brownstein, M.J., Usdin, T.B., Toshiyuki, S.
Carninci, P., Prange, C., Raha, S.S., Loquellano, N.A., Peters, G.J.,
Abramson, R.D., Mullahy, S.J., Bosak, S.A., McEwan, P.J.,
Worley, K.C., Hale, S., Garcia, A.M., Gay, L.J., Hulyk, S.W.,
Villalon, D.K., Muzny, D.M., Sodergren, E.J., Lu, X., Gibbs, R.A.,
Fahey, J., Helton, E., Ketteman, M., Young, A.C., Shevchenko, Y.,
Butfard, G.G., Blakesley, R.W., Touchman, J.W., Green, E.D.,
Butterfield, Y.S., Krzywinski, M.I., Skalska, U., Smallus, D.E.,
Schnerch, A., Schein, J.E., Jones, S.J. and Marra, M.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LINL at: http://image.llnl.gov Series: IRAK Plate: 42 Row: k Column: 16 This clone was selected for full length sequencing because it passed the following selection criteria: matched mRNA gi: 27894309. Location/Qualifiers
                                                                                                     BCO24747
Homo sapiens interleukin 1 family, member 5 (delta), transcript
variant 2, mRNA (cDNA clone MGC:29840 IMAGE:4996939), complete cds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Contact: amg@bcm.tmc.edu
Gunaratne, P.H., Garcia, A.M., Lu, X., Hulyk, S.W., Loulseged, H.,
Kowis, C.R., Sneed, A.J., Martin, R.G., Muzny, D.M., Nanavati,
A.N., Gibbs, R.A.
                                                                                                                                                                                                                                                                      Bukaryora, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Butheria, Primates, Catarrhini, Hominidae, Homo.

    (bases 1 to 2692)

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Direct Summission
Submitted (01-MAR-2002) National Institutes of Health, Mammalian
Gene Collection (MGC), Cancer Genomics Office, National Cancer
Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              cDNA Library Preparation: Life Technologies, Inc.
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Baylor College of Medicine Human Genome
Sequencing Center
Center code: BCM-HGSC
Web site: http://www.hgsc.bcm.tmc.edu/cdna/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  human and mouse cDNA sequences
Proc. Natl. Acad. Sci. U.S.A. 99 (26), 16899-16903 (2002)
12477932
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /mol_type="mRNA"
/db xref="taxon:9606"
/clone="wacc:29840 IMAGE:4996939"
/tissue type="Placenta, chortocarcinoma"
/clone_lib="NIH_MGC_10"
      2556 AACTTGTTATGCAGCAATAGATAAATAATATGCAGAGAAAGAG 2598
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NIH-MGC Project URL: http://mgc.nci.nih.gov
Contact: MGC help desk
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: ATCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                organism="Homo sapiens"
                                                                                                                                                                                               BC024747.1 GI:19353229
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (bases 1 to 2692)
                                                                                                                                                                                                                                          Homo sapiens (human)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Strausberg, R.
                                                                                                                                                                                                                                                                Homo sapiens
                                                                                                                                                                            BC024747
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 source
                                                                                                                                                                                                 VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                     DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PUBMED
REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AUTHORS
TITLE
JOURNAL
                                                                                                                                                                              ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             REMARK
COMMENT
                                                                                                                                                                                                                                                                                                                          REFERENCE
                                                                                                                                                                                                                                                                                                                                               AUTHORS
                                                                           RESULT 8
BC024747
LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TITLE
```

240

284

344

300

360 464 420 524 480 584

404

3

Gaps

3,

120

224

720

823

099 763

703

us-09-617-720a-1.rge

Db 1904 TTAGTTAAGACAAGGTCATGCTGGATGAAGGTAGACCTAAATTCAATATGACTGGTTTCC 1963  Oy 1860 TTGTATGAAAAGAAGAAGACACAGAGAAGAAGAAGAGAGAG		2024 AAGGCAGAGATCGGAGTTTTGCAGCCACAAGCTAAGAAACACCAAGGATTGTGGCAACCA	1980 TCAGAAGCTTGGAAGAGGAAGAAGTTCTTCCCTAGAGGCTTTAGAGGGATAACGGC 	2040 TCTGCTGAAACCTTAATCTCAGACTTCCAGCCTCCTGAACGAAGAAGAATAAATTTCGG 	Oy 2100 CTGTTTTAAGCCACCAAGATAATTGGTTACACCAGGTCTAGGAAACTAATACAGCTGGT 2159 	Oy 2160 AAAATGATCCCTGTCTCCTCGTGTTTACATTCTGTGTGTCTCCCTCC	Qy 2220 AAGTIGTCTTIGTGACCCAATAGAATATGGCAGAAGTGATGGCATGCAAGATT 2279	Oy 2280 AGGITATAAAGACACTGCAGCITCTACTTGAGCCCTTCTCTGCCACCGCCCC 2339	OY 2340 CAATCTAGGCTCACTCTGGGGGAAGCTAGCTGCCATGCTATGAGCAGGCCTA 2399  2443 CAATCTATCTTGGCTCACTCTGGGGGAAGCTAGCCATGCTATGAGCAGGCCTA 2502	OY 2400 TAAAGAGACTTACGTGGTAAAAATGAGTCTCCTGCCCACAGCCACATTAGTGAACCTA 2459  2503 TAAAGACTTACGTGGTAAAAATGAAGTCTCCTGCCCACAGCCACATTAGTGAACCTA 2562		Oy 2520 aacttgttatgcagcaatagataaatatgcagagaaagaga 2563 	RESULT 9 CQ722801 CQ72801 CQ722801 CQ72801 CQ722801 CQ722801 CQ722801 CQ722801 CQ72801 CQ7280	CQ722801 CQ722801 CQ722801.1 G1	_	KEFEKENCE I Adams, M.C., Li, P.W. and Myers, E.W. AUTHORS Venter, C.J., Adams, M.C., Li, P.W. and Myers, E.W. TITLE Kits, such as nucleic acid arrays, comprising a majority of humanexons or transcripts, for detecting expression and other uses	LOURNAL PATENT: WO 02068579-A 8735 06-SEP-2002; PEATURES Location/Qualifiers Source 12701 /organism="Homo sapiens"
721 CTTGTAAAAACCATGTGGGGTAAACTGGGAATAACATGAAAAGATTTCTGTGGGGGTGGG 780 	781 GTGGGGGAGTGCTGGAATCATTCCTGCTTAATGGTAACTGACAAGTGTTACCCTGAGCC 840 	841 CCGCAGGCCAACCCTCCCAGTTGAGCCTTATAGGGTCAGTAGCTCTCCACATGAAGTC 900	901 CTCTCACTCACCACTGTGCAGGAGGAGGTGGTCATAGAGTCAGGGATCTATGGCCCT 960 	961 TGGCCCAGCCCCACCCCTTT-ATCCTGCCACTGTCATATGCTACCTTTCCTATC 1019	1020 TCTTCCCTCATCATCTTGTGGGCATGAGGAGGTGGTGATGTCAGAAGAAAGA	AGCTCAGAAGATAAAAGATAAGTAGGGTATGCTGATCCTCTTTTAAAAACCCCAAGATACA 	1140 ATCAAAATCCCAGATGCTGGTCTCTATTCCCATGAAAAAGTGCTCATGACATATTGAGAA 1199 	GACCTACTTACAAAGTGGCATATATGCAATTTATTATTAATTA	TATTICITIATAGAAAAAGTCTGGAAGGTTTACTICAATTGTAGCAATGTCAGGTGG	TGGCAGTATAGGTGATTTTTCTTTTAATTCTGTTAATTTATCTGTATTTTTCTAATTTTTTTT	TACAATGAAGATGAATTCCTTGTATAAAATAAGAAAGAAA	GAGCAGACATCATCTCTGATTGTCCTCAGCCTCCAATTCCCCAGAGTAAATTCAAATTGA	1500 ATCGAGCTCTGCTGCTTGGTTGTTGTAGTGATCAGGAAACGATCTCAGCAAAGC 1559	1560 CACTGAGGAGGAGGTGTGCTGAGTTTGTGTGGCTGGATCTCTGGGTAAGGAACTTAAA 1619 	1620 GAACAAAAATCATCIGGTAATTCTTTCCTAGAAGGAICACAGCCCTGGGATTCCAAGGC 1679 	1680 ATTGGATCCAGTCTCTAAGAAGGCTGCTGTTGGATTGAATTGTGTCCCCTCAAATTCA 1739 	1740 CATCCTTCTTGGAATCTCAGTCTGTGAGTTTATTTGGAGATAAGGTCTCTGCAGATGTAG 1799 

1092 TTGGCCCAGCCCCCTTCCCTTTAATCCTGCCACTGTCATATGCTACCTTTCCTAT 1151	1019 CTCTTCCCTCATCATCTTGTGGGCATGAGGAGGTGATGTCAGAAGAAATGGTTC 1078	1079 GAGCTCAGAAGATAAAAGATAAGTAGGGTATGCTGATCCTCTTTTAAAAACCCAAGATAC 1138	1139 AATCAAAATCCCAGATGCTGGTCTCTATTCCCATGAAAAGTGCTCATGACATATTGAGA 	1199 AGACCTACTTACAAAGTGGCATATATTTGCAATTTATTTTAAAAGATACCTATTTAT	1259 ATAITICTTTATAGAAAAGTCTGGAAGACTTTACTTCAATTGTAGCAATGTCAGGGTG	1319 GTGGCAGTALAGGTGATTTTCTTTAATTCTGTTAATTTTTTT 137	1379	1572 AGAGGAGATCATCTCTGATTGTCCTCGGCTCCCCGGGGTGAATTCAAATTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGT	1499 AATCGAGGTCTGGTTGGTTGGTTGTTGTTGTTGATCAGGAAACAGATCTCAGCAAAG 	1559	1619 AGAACAAAATCATCTGGTAATTCTTTCCTAGAAGGATCACAGCCCCTGGGATTCCAAGG 	1679 CATTGGATCCAGTCTCTAAGAAGCTGCTGTTGAATTGTGTCCCCCTCAAATTC	1739	1799 GTTAGTTAAGACAAGGTCATGCATGAAGGTAGACCTAAATTCAATATGACTGGTTTC 1858	1959 CTTGTATGAAAAGGAGACACAGAGACAGAGAGACACGCGGGAACACTATGTAAACAT 1918 	1919 GAAGGCAGAGATTTTGCAGCCACAAGCTAAGAAACACCAAGGATTGTGGCAACC 1978 2052 GAAGGCAGAGATCGGAGTTTTGCAGCCAAAGCTAAGAAACACCAAGGATTGTGGGAAACC 2111	2112	2039 CTCTGCTGAAACCTTAATCTCGGACTTCCAGCCTCCTGAACGAAGAAGAATTTCG
<b>q</b> 0	S da	ζ Q Q	oy Pp	රු <u>පි</u>	ୟ ପ	충 음	ራ ብ 	충 옵 	상 음 	& g	<i>∂</i> 8	<i>8</i> €	& A	& 8	& g	<i>장</i> 셤	& A &	& 
/mol_type="unassigned DNA" /db_xref="taxon:9606"	DB 6; Length 2701;	1 AGGGAGTCTACACCCTC	AGGGC AGGGC AGGGC		181 ATGCCAGCCTGTCCCCCGTCATGGGGTGTCCAGGGTGGAAGCCAGTGCCTGTCATGTG 240	GGGTGGGGCAGGACTCTAACACTAGAGCCAGTGAACATCATGGAGCTCTATCTTG	301 GTGCCAAGGAATCCAAGAGCTTCACCTTCTACCGGGGGACATGGGGGCTCACCTCCAGCT 360	361 TCGAGTCGCTACCC-GGGCTGGTTCCTGTGCACGGTGCCTGAAGCCGATCAGCCT 419	0-0		GGTGAGGGGTGAGGAGGAGCCCATGGCGGACATCACTTTTGGTTCAGGACCCTTTTTTTGGTTCAGGACCCCTTTTTTTT	CCAGGTCTGACTTAGTGGGCACTGACCACTTTGTCTTCTGGTTCCCAGTTTGCATAAT	TCTGAGATTTGGAGCTCAGTCCAGGGTCCTCCCCACTGGATGGTGCTACTGCTGTGGAA	CCTTGTAAAAACCATGTGGGGTAAACTGGGAATAACATGAAAAAGATTTCTGTGGGGGTGG	CCTTGTAAAAACCATGTGGGGTAAACTGGGAATAACATGAAAAAGATTTCTGTGGGGGTGGGGGGGTGGGGGGGG	GGTGGGGGGGGGGGGGGGGGGGGTCCTGCTTAATGGTAACTGACAAGTGTTACCCTGAGCCCCGCAGGGGGGGG	atccccagttgagc Tgtgcaggagaggg             Tgtgcaggagagggg	H

ŝ

9 8 120 152 180 212 240 272 300 332 360 392 420 452 480 512 540 571 900 631 999 691 720

```
961 TGGCCCAGCCCCCCTTCCCTTT-ATCCTGCCACTGTCATATGCTACCTTTCCTATC 1019
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              153 TGCATGCAGGGAAGGTCATTAAAGGTGAAGAGATCAGCGTGGTCCCCAATCGGTGGCTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                              213 ATGCCAGCCTGTCCCCCGTCATCCTGGGTGTCCAGGTGGAAGCCAGTGCCTGTCATGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               333 GTGCCAAGGAATCCAAGAGCTTCACCTTCTACCGGGGGGACATGGGGCTCACCTCCAGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    393 TCGAGTCGGCTGCCTACCCGGCTGGTTCCTGTGCACGGTGCCTGAAGCCGATCAGCCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        812 GTGGGGGGGTGGTGGGAATCATTCCTGCTTAATGGTAACTGACAAGTGTTACCTGAGCC
                                                                                                                                                       1 AGGGGAGTCTACACCCTGTGGAGCTCAAGATGGTCCTGAGTGGGGCGCTGTGCTTCCGAA
                                                                                                                                                                                          AGGGGGGTCTACACCCTGTGGAGCTCAAGATGGTCCTGAGTGGGGCGCGTGTGCTTCCGAA
                                                                                                                                                                                                                                             TGAAGGACTCGGCATTGAAGGTGCTTTATCTGCATAATAACAGCTTCTAGCTGGAGGGC
                                                                                                                                                                                                                                                                                      93 TGAAGGACTCGGCATTGAAGGTGCTTTATCTGCATAATAACCAGCTTCTAGCTGGAGGGC
                                                                                                                                                                                                                                                                                                                                                                                                                           ATGCCAGCCTGTCCCCCGTCATCCTGGGTGTCCAGGGTGGAAGCCAGTGCCTGTCATGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GTGCCAAGGAATCCAAGAGCTTCACCTTCTACCGGCGGGACATGGGGCTCACCTCCAGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TCGAGTCGGCTGCCTACCCGGGCTGGTTCCTGTGCACGGTGCCTGAAGCCGATCAGCCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TCAGACTCACCCAGCTTCCCGAGAATGGTGGCTGGAATGCCCCCATCACAGACTTCTACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TCAGACTCACCCAGCTTCCCGAGAATGGTGGCTGGAATGCCCCCCATCACAGACTTCTACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TCCAGCAGTGTGACTAGGGCAACGTGCCCCCCAGAACTCCCTGGGCAGAGCCAGCTCGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   513 TCCAGCAGTGTGACTAGGGCAACGTG-CCCCCAGAACTCCCTGGGCAGAGCCAGCTCGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               541 GTGAGGGGTGAGTGAGGAGGAGCCCATGGCGGACAATCACTCTTTCTGCTCTCAGGACCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           632 cacercreactragreeecaccreaccactrrercreerreceagrriegaraaarr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CTGAGATTTGGAGCTCAGGGTCCTCCCCCCACTGGATGGTGCTACTGCTGTGGAAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       692 CTGAGATTTGGAGCTCAGTCCACGGTCCTCCCCCACTGGATGGTGCTACTGCTGTGGAAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CTTGTAAAAACCATGTGGGGGTAAACTGGGAATAACATGAAAAGATTTCTGTGGGGGTGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GTGGGGGAGTGCTGGAATCATTCCTGCTTAATGGTAACTGACAAGTGTTACCCTGAGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                841 CCGCAGGCCAACCCATCCCCAGTTGAGCCTTATAGGGTCAGTAGCTCTCCACATGAAGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         872 CCGCAGGCCAACCCATCCCCAGTTGAGCCTTATAGGGTCAGTAGCTCCCCACCTGAAGTC
                                                                                                                                                                                                                                                                                                                                    TGCATGCAGGGAAGGTCATTAAAGGTGAAGAGATCAGCGTGGTCCCCAATCGGTGGCTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CAGGICIGACITAGIGGGCACCIGACCACITIGICITCIGGITCCCAGITIGCATAAAIT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     901 CTCTCACTCACCACTGTGCAGGAGAGGGGGGTGGTCATAGAGTCAGGGATCTATGGCCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                932 CTGTCACTCACCACTGTGCAGGAGGAGGTGGTCATAGAGTCAGGGATCTATGCCCT
                                                                                                              Gaps
                                                                     2648;
                                                                                                            ŝ
                                                                     Length
                                                                                                            Indels
                                                                     .
9
                                                                                                            11;
                                                                     B
                                                                  Score 2488.4;
Pred. No. 0;
0; Mismatches
  /db_xref="taxon:9606"
                                                                  Query Match
Best Local Similarity 99.4%;
Matches 2550; Conservative
                                                                                                                                                                                                 33
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  421
                                                                                                                                                                                                                                             61
                                                                                                                                                                                                                                                                                                                                    121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              453
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      601
                                                                                                                                                                                                                                                                                                                                                                                                                           181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        781
                         ORIGIN
                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                             원
                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                         음
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                       ð
                                                                                                                                                                                                                                                                                                                               8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                               ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                         8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TION A novel interleukin-1 receptor antagonist and uses thereof.

10 BD2114315
10 BD211435.

11 BD211435.

12 D025510492-A/4.

11 Chance aspiens

12 Characoa; Chordata; Craniata; Vertebrata; Euteleostomi;

12 Mammalla; Eutheria; Primates; Catarrhini; Hominidae; Homo.

13 Chases 1 to 2648)

14 Chases 1 to 2648

15 Characoa; Chordata; Chordata; Catarrhini; Hominidae; Homo.

16 Chases 1 to 2648

17 Chases 1 to 2648

18 Pord,J. and Pace.

19 A novel interleukin-1 receptor antagonist and uses thereof

10 Chases 1 to 202510492-A 4 09-APR-2002;

10 Chase 2 Characoa;

11 Chase 3 Characoa;

12 Chase 3 Characoa;

13 Chase 4 Characoa;

14 Chase 5 Characoa;

15 Characoa;

16 Characoa;

17 Characoa;

18 Characoa;

18 Characoa;

19 Characoa;

10 Characoa;

10 Characoa;

11 Characoa;

12 Characoa;

13 Characoa;

14 Characoa;

15 Characoa;

16 Characoa;

17 Characoa;

18 Ch
                                                                                                                                   2218
                                                                                                                                                                                                                        2278
                                                                                                                                                                                                                                                                    2410
                                                                                                                                                                                                                                                                                                               2338
                                                                                                                                                                                                                                                                                                                                                         2470
                                                                                                                                                                                                                                                                                                                                                                                                    2398
                                                                                                                                                                                                                                                                                                                                                                                                                                              2530
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2458
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2518
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2591 AGAAGCAGAGACTCTGTGAGATAATCGATGTTTGTTTTAAGTTGCTCAGTTTTGGTC 2650
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Naj X27/02,C12NS/00
A novel interleukin-1 receptor antagonist and uses thereof FH
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Ы
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Homo sapiens (human)
JP 2002510492-A/4
09-APR-2020
05-APR-2099 JP 2000542457
03-APR-1998 US 09/055010,15-MAY-1998 US 09/079909 PR
UL-1998 US 09/127698,13-JAN-1999 US 09/229591 PR
EB-1999 US 09/251370
00/N FORD,ANN PACE
C12115/09,A61K38/00,C07K14/52,C07K14/545,C07K16/24,C12N1/15,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  C12N1/19,
C12N1/21, C12N5/10, C12Q1/68, G01N33/50, G01N33/566, G01N33/68,
                                                                                                                              CTCTGCTGAAACCTTAATCTCAGACTTCCAGCCTCCTGAACGAAGAAGAATAAATTTCG
                                                                  GCTGTTTTAAGCCACCAAGGATAATTGGTTACAGCAGCTCTAGGAAACTAATACAGCTGC
                                                                                                                                                                                                                                               AAAGTTGTCTTTGTGA-CCAATAGAATATGGCAGAAGTGGCATGCCACTTCCAAGAT
                                                                                                                                                                                                                                                                                                           2471 CCAATCTAGCTCACTCACGCGCACTCGCGAGAGCTAGCTGCCATGCTATGAGCAGGCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2531 ATAAAGAGACTTACGTGGTAAAAAATGAAGTCTCCTGCCCACAGCCACATTAGTGAACCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AGAAGCAGAGACTCTGTGAGATAATCGATGTTTGTTGTTTTAAGTTGCTCAGTTTTGGTC
                                                                                                                                                                                                                        AAAGTTGTCTTTGTGACCCAATAGAATATGGCAGAAGTGATGGCATGCCACTTCCAAGAT
                                              GCTGTTTTAAGCCACCAAGGATAATTGGTTACAGCAGCTCTAGGAAACTAATACAGCTGC
                                                                                                                                                                                                                                                                                                                                                                                                  CCAATCTATCTTGGCTCACTCGCTCTGGGGAAGCTAGCTGCCATGCTATGAGCAGGCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ATAAAGAGACTTACGTGGTAAAAATGAAGTCTCCTGCCCACAGGCCACATTAGTGAACCT

    .2648
    /organism='Homo sapiens (human)'

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TAACTIGITATGCAGCAATAGATAAATAATATGCAGAGAAAGAGA 2563
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1. .2648
/organism="Homo sapiens"
/mol_type="genomic DNA"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PN JP 20025104
PP 09-APR-2002
PR 03-APR-1998
20-MAY-1998 US
31-JUL-1998 US
17-FBE-1999 US
PI JOHN FORD, A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           C12N15/00,
PC A61K37
CC A nove
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              S
                                                                                                                                2159
                                                                                                                                                                            2292
                                                                                                                                                                                                                        2219
                                                                                                                                                                                                                                                               2352
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2399
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2459
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2519
2112
                                                                                       2232
                                                                                                                                                                                                                                                                                                             2279
                                                                                                                                                                                                                                                                                                                                                                                                  2339
                                              2099
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2651
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 10
BD211435
LOCUS
DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             REFERENCE
AUTHORS
TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COMMENT
                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                  8
                                         Š
                                                                         셤
                                                                                                                     ઠે
                                                                                                                                                                   요
                                                                                                                                                                                                                      õ
                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                           ઠે
                                                                                                                                                                                                                                                                                                                                                                                                ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
```

780 811 840

751

900

871

960

991

8 6 8 6 8

6 6 6 6 6 6

8 &

8 8 8

S G

B & B &

8 8

8 8 8 8

셤

8 6

8

```
2218
                                                                                                 2278
                                                                                                                         2310
                                                                                                                                                                    2370
                                                                                                                                                                                            2398
                                                                                                                                                                                                                  2430
                                                                                                                                                                                                                                        2458
                                                                                                                                                                                                                                                               2490
                                                                                                                                                                                                                                                                                      2517
                                                                                                                                                                                                                                                                                                             2550
                              2191
                                                                           2251
                                                                                                                                                                                                                                                                                                                                                                                                                 20-APR-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            'n
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                212
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     152
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      92
                                                                                                                                                                                                                                       ATAAAGAGACTTACGTGGTAAAAATGAAGTCTCCTGCCCACAGCCACATTAGTGAACCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ATGCCAGCCTGTCCCCCGTCATCCTGGGTGTCCAGGGTGGAAGCCAGTGCCTGTCATGTG
                                                                                                                                                          AGAAGCAGAGACTCTGTGAGATAATCGATGTTTGTTGTTTTAAAGTTGCTCAGTTTTGGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AGGGGAGTCTACACCCCTGTGGAGGTCAAGATGGTCCTGAGTGGGGGCGCTGTGCTTCCGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GCTGTTTTAAGCCACCAAGGATAATTGGTTACAGCAGCTCTAGGAAACTAATACAGCTGC
                                                                  AAAGTTGTCTTTGTGACCCAATAGAATATGGCAGAAGTGATGGCATGCCACTTCCAAGAT
                                                                                                               AGAAGCAGAGACTCTGTGAGATAATCGATGTTTGTTGTTTT-AAGTTGCTCAGTTTTGGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               61 TGAAGGACTCGGCATTGAAGGTGCTTTATCTGCATAATAACCAGCTTCTAGCTGGAGGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TGCATGCAGGGAAGCTCATTAAAGCTGAAGAGATCAGCGTGGTCCCCCAATCGGTGGCTGG
                                                      TAAAATGATCCCTGTCCTCGTGTTTACATTCTGTGTGTCCCCCTCCCACAATGTACC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AGGGGAGTCTACACCCTGTGGAGCTCAAGATGGTCCTGAGTGGGGCGCTGTGCTTCCGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 recombinant production
                                                                                                                                                                                                                                                                                                                                                                                                                  PAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            5,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length 2648;
                                                                                                                                                                                                                                                                                                                                  IndelB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DB 6;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             11;
                                                                                                                                                                                                                                                                                                                                                                                                                   DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Unclassified.
1 (bases 1 to 2648)
1 rough y and Pace.A.
Interleukin-1 receptor antagonist and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match 97.1%; Score 2488.4; Best Local Similarity 99.4%; Pred. No. 0; Matches 2550; Conservative 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Location/Qualifiers
1. .2648
/organism="unknown"
/mol_type="unassigned DNA"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Patent: US 6337072-A 6 08-JAN-2002
                                                                                                                                                                                                                                                                                                                                                                                                                 AR181995 2648 bp
Sequence 6 from patent US 6337072.
AR181995 GI:20224911
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Unknown
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Unknown
                                                                            2192
                                                                                                                           2252
                                                                                                                                                                        2311
                                                                                                                                                                                                                    2371
                                                                                                                                                                                                                                           2399
                                                                                                                                                                                                                                                                  2431
                                                                                                                                                                                                                                                                                        2459
                                                                                                                                                                                                                                                                                                              2491
                                                                                                                                                                                                                                                                                                                                     2518
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            33
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              121
                                                        2159
                                                                                                   2219
                                                                                                                                                  2279
                                                                                                                                                                                              2339
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       93
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     153
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          181
            2099
                                 2132
                                                                                                                                                                                                                                                                                                                                                            2551
                                                                                                                                                                                                                                                                                                                                                                                          RESULT 11
AR181995
LOCUS
DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           REFERENCE
AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ORIGIN
                           g
                                                      8 8
                                                                                              à
                                                                                                                    qq
                                                                                                                                                ò
                                                                                                                                                                  임
                                                                                                                                                                                          8 B 8
                                                                                                                                                                                                                                                          8 &
                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                              8
                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g &
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8
                                                                                                                                                                                                                                                                                                                                                                                                                                          1618
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1798
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1858
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1918
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1978
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2038
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2098
                                                                   1139
                                                                                                                1199
                                                                                                                                                             1258
                                                                                                                                                                                                                                                    1711
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1831
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2011
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2131
                                                                                                                                                                                                                                                                                                   CTACAATGAAGATGCTTGTATAAAATAAGAAAGAAATTAATCTTGAGGTAAGC 1438
                                                                                                                                                                                                                                                                                                                                              AGAACAAAAATCATCTGGTAATTCTTTCCTAGAAGGATCACAGCCCCTGGGATTCCAAGG 1678
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CATTGGATCCAGTCTCTAAGAAGGCTGCTGTACTGGTTGAATTGTGTCCCCCTCAAATTC 1738
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1171
                                                                                                                                                                                                          ATATTICTTTATAGAAAAAGTCTGGAAGAGTTTTACTTCAATTGTAGCAATGTCAGGGTG 1318
                                                                                                                                                                                                                                 1351
                                                                                                                                                                                                                                                                                                                CTACAATGAAGATGCAATTCCTTGTATAAAAATAAGAAAAGAAATTAATCTTGAGGTAAGC 1471
                                                                                                                                                                                                                                                                                                                                                                                             AATCGAGCTCTGCTCTGGTTGGTTGTAGTAGTGATCAGGAAACAGATCTCAGCAAAG 1558
                                                                                                                                                                                                                                                                                                                                                                                                        1532 AATCGAGCTCTGCTCTGGTTGGTTGTAGTAGTGATCAGGAAACAGATCTCAGCAAAG 1591
                                                                                                                                                                                                                                                                                                                                                                                                                                                       1592 CCACTGAGGAGGCTGTGCTGAAGTTGTGGGAATCTCTGGGTAAGGAACTTAA 1651
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TGGCCCAGCCCCACCCCTTCCCTTTAATCCTGCCACTGTCATATGCTACCTTTCCTATC 105:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GAAGGCAGAGATCGGAGTTTTGCAGCCACAAGCTAAGAAAACACCAAGGATTGTGGCAAACC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GTTAGTTAAGACAAGGTCATGCTGGATGAAGGTAGACCTAAATTCAATATGACTGGTTTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CTTGTATGAAAAGGAGAGACACAGAGACAGAGAGACGCGGGGAAGACTATGTAAAGAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CTTGTATGAAAAGGAGAGACACAGAGACAGGAGACGCGGGGAAGACTATGTAAAGAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GAAGGCAGAGATCGGAGTTTTGCAGCCACAAGCTAAGAAACACCCAAGGATTGTGGCAACC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ATCAGAAGCTTGGAAGAAGAAGAATTCTTCCCTAGAGGCTTTAGAGGGATAACGG
                     1112 AGCTCAGAAGATAAAAAAAGATAGGGTATGCTGATCCTCTTTTAAAAACCAAGATACA
                                                                                                                ATCAAAATCCCAGATGCTGGTCTCTATTCCCATGAAAAGTGCTCATGACATATTGAGAA
                                                                                                                           1172 ATCAAAATCCCAGATGCTGGTCTCTATTCCCATGAAAAGGGCTCATGACATATTGAGAA
                                                                                                                                                             1200 GACCTACTTACAAAGTGGCATATA-TTGCAATTTATTTTAATTAAAAGATACCTATTTAT
                                                                                                                                                                          ATATTTCTTTATAGAAAAAGTCTGGAAGAGTTTACTTCAATTGTAGCAATGTCAGGGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                           CCACTGAGGAGGCTGTGCTGAGTTTGTGTGGCTGGAATCTCTGGGTAAGGAACTTAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1080 AGCTCAGAAGATAAAAGATAAGTAGGGTATGCTGATCCTCTTTTAAAAACCCCAAGATACA
                                                                                                                                                                                                                                                                                                                                                                                                                                          1559 (
                                                                                                                                                                                                                                                                                                                                                                        1472
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1619
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1652
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1739
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1772
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1799
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1832
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1892
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1952
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2012
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2039
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2072
                                                                                                                  1140
                                                                                                                                                                                                                                                                                                                          1412
                                                                                                                                                                                                                                                                                                                                                 1439
                                                                                                                                                                                                                                                                                                                                                                                              1499
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1679
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1712
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1859
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1919
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1979
                                                                                                                                                                                     1232
                                                                                                                                                                                                            1259
                                                                                                                                                                                                                                 1292
                                                                                                                                                                                                                                                                                                    1379
 992
```

us-09-617-720a-1.rge

1319 GTGGCAGTATAGTGATTTTTCTTTTAATTCTGTTAATTTATCTGTATTTCCTAATTTT 1378		9 CTACAATGAAGATGAATTCCTTGTATAAAATAAGAAAAGAAATTAATCTTGAGGTAAGC 143 	1439 AGAGCAGACATCATCTGATTGTCCTCAGCCTCCAATTCCCGAGGAAATTCAAATTG 1498 	1499 AATGGAGTTCTGCTGCTTGGTTGTTGTAGTGATCAGGAAACAGATCTCAGCAAAG 1558 	1559 CCACTGAGGAGGAGGTGTGCTGAGTTTGTGTGGCTGGAATCTCTGGGTAAGGAACTTAA 1618 		σ α	<ul> <li>ACATCCTTCTTGGAATCTCAGTCTGTGAGTTTATTTGGAGATAAGGTCTCTGCAGATGTA 179</li> <li>                                     </li></ul>	1799 GTTAGTTAAGACAAGGTCATGCTGGATGAAGGTAGACCTAAATTCAATATGACTGGTTTC 1858 	9 CTTGTATGAAAGGAAGGACACAGAACAGAGGAGAGGGGAAGATTATGTAAGAT 191. 	9 GAAGGAGAATCGGAGTTTTGCAGCACAAGGTAAGAACACCAAGGATTGTGGCAACC 197. 	9 ATCAGAAGCTTGGAAGAGGGAAAGAAGAATTCTTCCCTAGAGGCTTTAGAGGGATAACGG 203: 	9 CTCTGCTGAAACCTTATCTCAGACTTCCAGCCTCCTGAACGAGAAGAATAATTTCG 209	2099 GCTGTTTTAAGCCACCAAGGATAATTGGTTACAGCAGCTCTAGGAAACTAATACAGCTGC 2158 	2159 TARARTCCCTGTCTCCTCGTGTTTACATTCTGTGTGTCCCCTCCCCACATGTACC 2218 [	2219 AAAGTTGTCTTTGTGACCCAATAGAATATGGCAGAAGTGATGGCATGCCACTTCCAAGAT 2278 	9 TAGGITATAAAAGACACTGCAGCTTCTACTTGAGCCCTCTCTCTGCGACCCACCGCCC 233	2339 CCAAICTATGGCTCACGGTCTGGGGGGAAGCTAGGTGCCATGCTATGAGGGGGGCCT 2398 [
ò	qa	à a	S a	& a	ò q	g g	λ G	& g	ò 9	ò a	ර යි	Oy Op	රු සි	Å a	& A	è 4	Oy Dp	රු සි
				,														
ATGCCAGCCTGTCCCCGTCATCCTGGGTGTCCAGGGTGGAAGCCAGTGCCTGTCATGTG 27.	241 GGGTGGGGCGAGGAGCCGACTCTAACACTGAGCCAGTGAACATCATGGAGCTCTATCTTG 300	301 GTGCCAAGGAATCCAAGAGCTTCACCTTCTACCGGGGGACATGGGGCTCACCTCCAGCT 360 	361 TCGAGTCGGCTGCCTGGTTGCTGGTGCCTGGAGCCGATCAGCCTG 420	TTCTACT         TTCTACT	TCCAGCAGTGTGACTAGGGCAACGTGCCCCCCAGAACTCCCTGGGCAGCAGCTCGG	GTGAGGGGTGAGTGGAGGAGCCCTGGGGGACAATCACTTTTCTGCTCTCAGGACCCC	601 CAGGICTGACTIAGTGGGCACCTGACCACTITGICTTCTGGTTCCCAGITTGCAIAAAIT 660 		66611666 	781 GTGGGGGAGTGCTGGGAATCATTCCTGCTTAATGGTAACTGACAAGTGTTACCCTGAGCC 840	841 CCGCAGGCCAACCCCTCCCGGTTGAGCCTTATAGGGTCAGTAGCTCTCCACATGAAGTC 900	TGGCCCT         TGGCCCT	961 TGGCCCAGCCCCATCCCTTT-ATCCTGCCACTGTCATATGCTACCTTTCCTATC 1019	1020 TCTTCCCTCATCATCTTGTGGGCATGAGGAGGTGGTGATGTCAGAAGAAATGGTTCG 1079 1052 TCTTCCCTCATCATCATCTTGTTGTGGGCATGAGGAGGTGATGTCAAAGAAATGGCTCG 1111		ATCAAAATCCCAGATGCTGGTCTCTATTCCCATGAAAAAGTGCTCATGACATATTGAGAAATCTCAAAAACCCAGAAGTGTTTTTTTT	GACCTACTTACAAAGTGGCATATA-TTGCAATTTTATTTT	1259 ATATTICTITATAGAAAAAGTCTGGAAGAGTTTACTTCAATTGTAGCAATGTCAGGGTG 1318 

Oy 541 GTGAGGGTGAGTGAGGGGGACCCATGGCGGACAATCACTCTTTCTGCTCTCAGGACCCC 600	601	Qy         661         CTGAGATTTGGAGCTCAGTCCAGGGTCCTCCCCCACTGGATGGTGCTACTGCTGTGGAAC         720	OY 721 CTTGTAAAAACCATGTGGGGTAAACTGGGAATAACATGAAAAGATTTCTGTGGGGGGTGGG 780		Oy 841 CCGCAGGCCAACCCCCCCCCGGTTGAGCCTTATAGGGTCAGTAGCTCTCCACATGAAGTC 900	CTCT 	QY         961 TGGCCCACCCCCCTTCCCTTT-ATCCTGCACTGTCATATGCTACCTTTCCTATC 101           DD         992 TGGCCCACCCCACCCCTTCCCTTTAATCCTGCCACTGTCATATGCTACCTTTCCTATC 105	QY         1020         TCTTCCCTCATCATCTTGTTGTGGGCATGAGGAGGTGGTGATGTCAGAAGAAAAAGTTGT         101         102         102         102         103	QY         1080 AGCTCAGAAGATAAAGATAAGTAAGGTATGCTGATCCTCTTTTAAAAACCCAAGATACA 1139           DD         1112 AGCTCAGAAGATAAAAGATAAGTAGGGTATGCTGATCCTCTTTTAAAAACCCAAGATACA 1171	Qy 1140 ATCAAAATCCCAGATGCTGGTCTCTATTCCCATGAAAAAGTGCTCATGACATATTGAGAA 11  Db 1172 ATCAAAATCCCAGATGCTGGTCTCTATTCCCATGAAAAGTGCTCATGACATTTGAGAA 12	QY         1200 GACCTACTTACAAAGTGGCATATA.TTGCAATTTATTTTAAAGAGATACCTATTTAT 12	Qy         1259         ATATITCTITATAGAAAAAAGICTGGAAGAGITTACTICAATIGTAGCAATGTCAGGGG 131           Db         1292         ATATITCTITATAGAAAAAAGTCTGGAAGGTTTACTICAATIGTAGCAATGTCAGGGGG 135	9 GIGGCAGTAIAGGIGAITTITCITITAAITCIGITAAITTAICIGTAITTCCCTAAITTIT 		9 AGAGCAGACATCATCTCTGATTGTCCTCAGCCTCCAATTCCCCAGAGTAAATTCAAATTG [	1499 AATCGAGCTCTGCTGGTTGGTTGTAGTAGTGATCAGGAACAGATCTCAGCAAG 1	Oy 1559 CCACTGAGGAGGAGCTGTGAGTTTGTGTGAGTGGATTCTGTGAGGAGTTAGGAGTAGGAGTTAGGATTTGTGTGAGTGAGTGAGGAAGGATTAGTGTGAGTGAATTCTGTGGAATTCTGGGTAAGGAATTAGTGAGTG
ATAAAGAGACTTACGTGGTAAAAAATGAAGTCTCCTGCCCACAGCCACATTAGTGAACCT 2458 	TTGGT 25        TGGT 25	CTAACTIGTTAIGCAGCAATAGTAATAATATGCAGAGAAAGAGA 2563 		AR221129 2648 bp DNA linear PAT 26-SEP-2002 Sequence 6 from patent US 6426191. AR221129 AR221129.1 GI:23328014	i. ed	1 (bases 1 to 2648) Ford, J. and Pace, A. Assays involving an IL-1 receptor antagonist Patent: US 6426191-A 6 30-JUL-2002;	Location/Qualifiers 1. 2648   /organism="unknown"   /mol_type="genomic_DNA"	248B.4; DB 6; Length 2648; No. 0;	0; Mismatches 11; Indels 5; Gaps IGGAGCTCAAGATGGTCTGAGTGGGGGGCGCTGTGCTTCGAA	TCCGAA 92 GAGGGC 12 	GAGGGC 15 GGCTGG 18 	GGGAAGGTCATTAAAGGTGAAGAGATCAGCGTGGTCCCCCAATCGGTGGCTGG CTGTCCCCCGTCATCCTGGGTGTCCAAGGTGGAAGCCAGTGCCTGTCATGTG	ATGCCAGCCTGTCCCCCGTCATCCTGGGTGTCCAGGGTGGAAGCCAGTGCCTGTCATGTG 272 GGGTGGGGCAGGAGCCGACTCTAACACTAGAGCCAGTGAACATCATGGAGCTCTATCTTG 300 GGGTGGGGCAGGAGCCGACTCTAACATAACACTAGAGCTGAACATCATGGAGCTCTATCTTG 332 GGGTGGAGCAACACAACAACAACAACAACAGGAGAAGAAGAAGA	CAGCT 36	GCCTG 4	CTACT 4	TCCAGCAGTGTGACTAGGGCAACGTGCCCCCCAGAACTCCCTGGGCAGAGCCAGCTCGG 540 

Unclassified.  REFERENCE 1 (bases 1 to 2648)  AUTHORS Ford, J., Ho, A.S.Y. and Pa TITLE Interleukin1 receptor a JOURNAL Patent: US 6541623-A 6 01 FEATURES Location/Qualifit Source / Organism="unkno"   Location   Location	ORIGIN  Query Match  Bost Local Similarity 99.4%; Pre Matches 2550; Conservative 0;	Qy 1 AGGGGAGTCTACACCCTGTGGAG 	Oy 61 TGAAGGACTCGGCATTGAAGGTG	Qy 121 TGCATGCAGGGAAGGTCATTAAA	Oy 181 ATGCCAGCCTGTCCCCGGTCATC	Oy 241 GGGTGGGGCAGGAGCCGACTCTA	Oy 301 GTGCCAAGGAATCCAAGAGCTTC	Oy 361 TCGAGTCGGCTGCCTACCGGGC 	Qy 421 TCAGACTCACCCAGCTTCCCGAG	Oy 481 TCCAGCAGTGTGACTAGGGCAAC	Oy 541 GTGAGGGGTGAGTGGAGAGACC	Oy 601 CAGGTCTGACTTAGTGGGCACCT	Oy 661 CTGAGATTTGGAGCTCAGTCCAG	Oy 721 CTTGTAAAAACCATGTGGGGTAA	Oy 781 GTGGGGAGTGCTGGGAATCATT	Qy 841 CCGCAGGCCAACCCATCCCCAGT
TTCCAAGG 1711 TTCCAAGG 1711 TCAAATTC 1738 TCAAATTC 1771 CCAGATGTA 1798	CAGATGTA 1831 CTGGTTTC 1858          CTGGTTTC 1891	GTAAAGAT 1918          GTAAAGAT 1951	TGGCAACC 1978          TGGCAACC 2011	GATAACGG 2038           GATAACGG 2071	AAATTTCG 2098           AAATTTCG 2131	ACAGCTGC 2158           ACAGCTGC 2191	CCCACAATGTACC 2218               CCCACAATGTACC 2251	CACTTCCAAGAT 2278              CACTTCCAAGAT 2310	CACCGCC 2338          CACCGCC 2370	GCAGGCCT 2398           GCAGGCCT 2430	GTGAACCT 2458            GTGAACCT 2490	GTTTTGGT 2517           GTTTTGGT 2550			T 12-JUN-2003	
	ttiggagataaggictctg ngacctaaattcaatatga               ngacctaaattcaatatga	BAGACGCGGGAAGACTATO 	pagaacaccaaggaitg                  bagaacaccaaggaitg	recetagaggetttagagg                recetagaggetttagagg	rcctgaacgaagaatz 	scagctctaggaaactaati 	rerererececreceacy	BAGTGATGGCATGCCACT	SCCTCTCTCTGGCCACCC	SCTAGCTGCCATGCTATGAC	creccacacccacarrac	STTGTTTT-AAGTTGCTCAC STTGTTTTAAAGTTGCTCAC	3CAGAGAAGAGA 2563               3CAGAGAAGAGA 2596	;	DNA linear PAT	
	TGGAATCTCAGTCTGTGAGTTÄTTTGGAGATAAGGTCTCTGCAGATGTA ACAAGGTCATGCTGGATGAAGGTAGACCTAAATTCAATATGACTGGTTTC 	aaggagagacacagagacagagagacgcggggaagactatgtaaagat 	GAAGGCAGAGATTTTGCAGCCACAAGCTAAGAAACACCAAGGATTGTGGGAACC 	TGGAAGAGGCAAAGAAGAATTCTTCCCTAGAGGCTTTAGAGGGATAACGG 	accitaatcicagaciticcagcciccigaacgaagaaagaataaatiticg 	GCCACCAAGGATAATTGGTTACAGCAGGTCTAGGAAACTAATACAGCTGC 	TABARTGATCCCTGTCTCCTCGTGTTTACATTCTGTGTGTGTCCCCTCCCCACAATGTACC	TTGTGACCCAATAGAATATGGCAGAAGTGATGGCATGCCACTTCCAAGAT 	AAGACACTGCAGCTTCTACTTGAGCCCTCTCTCTGCCACCGCCCCCCCC	CCANTCTATCTTGGCTCACTCGGTGGAAAGCTAGCTGCCATGCTATGAGCAGGCCT 	TTACGTGGTAAAAATGAGTCTCCTGCCCACAGCCACATTAGTGAACCT 	agaagcagagactctgtgagataatcgatgtttgttgtttt-aagttgctcagttttggt 	CTAACTTGTTATGCAGCAATAGATAATAATATGCAGAGAAAGAGA 		2648 bp   rom patent US 6541623. GI:31691557	
	1772 ACATCCTTCTTGG 1799 GTTAGTTAAGACA              1832 GTTAGTTAAGACA	1859 CTTGTATGAAAAG             1892 CTTGTATGAAAAG	1919 GAAGGCAGAGATC              1952 GAAGGCAGAGATC	1979 ATCAGAAGCTTGC 	2039 CTCTGCTGAAACC             2072 CTCTGCTGAAACC	2099 GCTGTTTTAAGCC 	2159 TAAAATGATCCCT 	2219 AAAGTTGTCTTTG 	2279 TAGGTTATAAAAG 	2339 CCAATCTATCTTG 	2399 ATAAAGAGACTTA 	2459 AGAAGCAGAGACT 	2518 CTAACTTGTTATG		AR302957 N Sequence 6 fro AR302957 AR302957.1 GI	Unknown. M Unknown.
8 8 8 8	9 & B	රු අ	දු පු	<b>∂</b> 8	λ q	ò q	ò qa	දු පු	ව ර	& 8	& 4a	& 4g	% q	RESULT 13 AR302957	LOCUS DEFINITION ACCESSION VERSION	KEYWORDS SOURCE ORGANISM

GCTTTATCTGCATAATAACCAGCTTCTAGCTGGAGGGC 120 240 CCACCTTCTACCGGCGGGACATGGGGGCTCACCTCCAGCT 360 GAATGGTGGCTGGAATGCCCCCATCACAGACTTCTACT 480 TRACCACTITGTCTTCTGGTTCCCAGITTGCATAAATT 660 GGGTCCTCCCCACTGGATGCTGCTGCTGCTGGAAC 720 CTIGTAAAAACCAIGIGGGGTAAACTGGGAATAACAIGAAAAGAITTCIGIGGGGGGGGG 780 AGGTGAAGAGATCAGCGTGGTCCCCAATCGGTGGCTGG 180 212 CCTGGGTGTCCAGGGTGGAAGCCAGTGCCTGTCATGTG 272 AACACTAGAGCCAGTGAACATCATGGAGCTCTATCTTG 300 AACACTAGAGCCAGTGAACATCATGGAGCTCTATCTTG 332 SCTGGTTCCTGTGCACGCTGCCTGAAGCCGATCAGCCTG 420 540 CCATGGCGGACAATCACTTTCTGCTCTCAGGACCCC 600 GTGGGGGAGTGCTGGGAATCCTGCTTAATGGTAACTGACAAGTGTTACCCTGAGCC 840 CCGCAGGCCAACCCATCCCCAGTTGAGCCTTATAGGGTCAGTAGCTCTCCACATGAAGTC 900 92 CCTGGGTGTCCAGGGTGGAAGCCAGTGCCTGTCATGTG CGTGCCCCCCCAGAACTCCCTGGGCAGAGCCAGCTCGG GCTCAAGATGGTCCTGAGTGGGGCGCTGTGCTTCCGAA Gaps .; 2 DB 6; Length 2648, Pace, A. antagonist and uses thereof 31-APR-2003; Tiers Mismatches 11; Indels ore 2488.4; nown" omic DNA" 781 752 812 841 品 谷 品 农 Š

8 6 8 6 8

6 6 6 6 6

원 상

8 8

 868686

ò

8 8 8 8

6 6 6 6 6

```
2218
                                                                                                                                                                                                                                2278
                                                                                                                                                                                                                                                           2310
                                                                                                                                                                                                                                                                                                                2370
                                                                                                                                                                                                                                                                                                                                           2398
                                                                                                                                                                                                                                                                                                                                                                     2430
                                                                                                                                                                                                                                                                                                                                                                                                2458
                                                                                           2131
                                                                                                                                                 2191
                                                                                                                                                                                                      2251
                                                                                                                                                                                                                                                                                                                                                                                                                                                      2517
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PAT 25-JAN-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           92
                             GCTGTTTTAAGCCACCAAGGATAATTGGTTACAGCAGCTCTAGGAAACTAATACAGCTGC
                                                                                                                                                                                                                                                                                     ATAAAGAGACTTACGTGGTAAAAAAGACTCTCCTGCCCACACGCCACATTAGTGAACCT
                                                                                                                                                                                                                                                                                                                                                                                                               2431 ATAAAGAGACTTACGTGGTAAAAAATGAAGTCTCCTGCCCACAGCCACATTAGTGAACCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CTCTGCTGAAACCTTAATCTCAGACTTCCAGCCTCCTGAACGAAGAAGAATAAATTTCG
                                                                                                                                                                            AAAGTTGTCTTTGTGACCCAATAGAATATGGCAGAAGTGATGGCATGCCACTTCCAAGAT
                                                                                                                                                                                                                                              CCAATCTATCTTGGCTCACTCGCTCTGGGGAAGCTAGCTGCCATGCTATGAGCAGGCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                      AGAAGCAGAGACTCTGTGAGATAATCGATGTTTGTTGTTTTT-AAGTTGCTCAGTTTTGGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AGGGGAGTCTACACCCTGTGGAGCTCAAGATGGTCCTGAGTGGGGGCGCTGTGCTTCCGAA
                                                                                                                       GCTGTTTTAAGCCACCAAGGATAATTGGTTACAGCAGCTCTAGGAAACTAATACAGCTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length 2648;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         and uses thereof
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           11; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DB 6;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ttch 97.1%; Score 2488.4; al Similarity 99.4%; Pred. No. 0; 2550; Conservative 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Ford, J. and Pace, A.
A interleukin-1 receptor antagonist
Patent: WO 0102571-A 6 11-JAN-2001;
HYSEQ, INC. (US)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /organism="Homo sapiens".
/mol_type="unassigned DNA"
/db xref="taxon:9606"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2648 bp
Sequence 6 from Patent WO0102571.
AX069309.1 GI:12579181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Homo sapiens (human)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1. .2648
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local Si
Matches 2550;
              1979
                                                                   2039
                                                                                            2072
                                                                                                                         2099
                                                                                                                                                   2132
                                                                                                                                                                                                       2192
                                                                                                                                                                                                                                   2219
                                                                                                                                                                                                                                                            2252
                                                                                                                                                                                                                                                                                       2279
                                                                                                                                                                                                                                                                                                                   2311
                                                                                                                                                                                                                                                                                                                                              2339
                                                                                                                                                                                                                                                                                                                                                                      2371
                                                                                                                                                                                                                                                                                                                                                                                                   2399
                                                                                                                                                                                                                                                                                                                                                                                                                                                       2459
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2491
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       г
                                                                                                                                                                            2159
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2551
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                33
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2518
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LOCUS
DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                REFERENCE
AUTHORS
TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT 14
AX069309
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ORIGIN
                                8 & 8
                                                                                                               8
                                                                                                                                             음 상 음
                                                                                                                                                                                                                             6 B 6
                                                                                                                                                                                                                                                                                                         ద
                                                                                                                                                                                                                                                                                                                                         8
                                                                                                                                                                                                                                                                                                                                                             음 상
                                                                                                                                                                                                                                                                                                                                                                                                                     8 S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ଚ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                               1378
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1498
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1798
                                                                               1019
                                                                                                                                                                                                                                              1199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2011
                                                                                                                                    TCTTCCCTCATCATCTTGTTGTGGGCATGAGGAGGTGGTGATGTCAGAAAAAAGGTTCG 1079
                                                                                                                                                                                           1080 AGCTCAGAAGATAAAAGATAAGTAGGGTATGCTGATCCTCTTTTAAAAACCCAAGATACA 1139
                                                                                                                                                                                                                    1111
                                                                                                                                                                                                                                                                                                                                                         1259 ATATTTCTTTATAGAAAAAGTCTGGAAGAGTTTACTTCAATTGTAGCAATGTCAGGGTG 1318
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1472 AGAGCAGACATCATCTCTGATTGTCCTCAGCCTCCACTTCCCCAGAGTAAATTCAAATTG 1531
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1499 AATCGAGCTCTGCTCTGGTTGGTTGTAGTGGTGATCAGGAAACAGATCTCAGCAAAG 1558
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CCACTGAGGAGGCTGTGCTGAGTTTGTGTGGCTGGAATCTCTGGGTAAGGAACTTAA 1618
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1619 AGAACAAAATCATCTGGTAATTCTTTCCTAGAAGGATCACAGCCCCTGGGATTCCAAGG 1678
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1652 AGAACAAAAATCTGGTAATTCTTTCCTAGAAGGATCACAGCCCCTGGGATTCCAAGG 1711
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CATTGGATCCAGTCTCTAAGAAGGCTGCTGTACTGGTTGAATTGTGTCCCCCTCAAATTC 1738
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CTTGTATGAAAAGGAGAGACACAGAGACAGAGGAGACGCGGGGAAGACTATGTAAAGAT 1918
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GAAGGCAGAGATCGGAGTTTTGCAGCCACAAGCTAAGAAACACCAAGGATTGTGGCAACC 1978
                                                                                            992 TGGCCCAGCCCCACCCCTTCCCTTTAATCCTGCCACTGTCATATGCTACCTTTCCTATC 1051
                                                                                                                                                   1052 TCTTCCCTCATCATCTTGTTGTGGGCATGAGGAGGTGGTGATGTCAGAAGAAATGGCTCG 1111
                                                                                                                                                                                                                                                                                                      1258
                                                                                                                                                                                                                                                                                                                                                                         1292 ATATTICTITATAGAAAAAAGTCTGGAAGAGTTTACTTCAATTGTAGCAATGTCAGGGTG 1351
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1532 AATCGAGCTCTGCTCTGGTTGGTTGTAGTAGTAGTGATCAGGAAACAGATCTCAGCAAAG 1591
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1651
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1712 CATTGGATCCCAGTCTCTAAGAAGGCTGCTGTACTGGTTGAATTGTGTCCCCCTCAAATTC 1771
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1772 ACATCCTTCTTGGAATCTCAGTCTGTGAGTTTATTTGGAGATAAGGTCTCTGCAGATGTA 1831
                            960
CCGCAGGCCAACCCATCCCCAGTTGAGCCTTATAGGGTCAGTAGCTCTCCACATGAAGTC 931
                                                                                                                                                                                                                                             TGGCCCAGCCCCACCCCTTTCCTTTT-ATCCTGCCATATGCTACCTTTCCTATC
                                                                                                                                                                                                       1112 AGCTCAGAAGATAAAGGATAAGTAAGGGTATGCTGATCCTCTTTTAAAAACCCAAGATACA
                                                                                                                                                                                                                                                                                                                                                                                                               1319 GTGGCAGTATAGGTGATTTTTCTTTTAATTCTGTTAATTTTATCTGTATTTCTTATTTT
                                                                                                                                                                                                                                                                                                                                                                                                                              1352 GTGGCAGTATAGGTGATTTTTCTTTTAATTCTGTAATTTAATTATCTGTAATTTTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1439 AGAGCAGACATCATCTCTGATTGTCCTCAGCCTCCAATTCCCCAGAGTAAATTCAAATTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ACATCCTTCTTGGAATCTCAGTCTGTGAGTTTATTTGGAGATAAGGTCTCTGCAGATGTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1952 GAAGGCAGAGATCGGAGTTTTGCAGCCACACAAGCTAAGAACACCCAAGGATTGTGGGAACC
                                                                                                                                    1020
                                                                              961
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1559
 872
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1679
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1739
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1859
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1919
```

q

8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8

	CTACAATGAAGATGAATTCCTTGTATAAAAATAAGAAAAGAAATTAATCTTGAGGTAAGC	1499 AATCGAGCTCTGCTGGTTGGTTGTTGTAGTAGTAGTAGTAGTAGTAGTAGTAG	AGAACAAAAATCATCTGGTAATTCTTTCCTAGAAGGATCACAGCCCCTGGGATTCCAAGG CATTGGATCCACTCTTAGAAGGCTGCTGTACTGGTTGAATTGTGTCCCCCTCAAATTC [	1739 ACATCCTTCTTGGAATCTCGTGAGATTTATTGGAGGTCTCTGGAGTGTA 1798  1772 ACATCCTTCTTGGAATCTCGGTCTGTGAGTTTATTTGGAGATATGGTCTCTGCAGATGTA 1831  1799 GTTAGTTAAGACAAGGTCATGCTGGATGATGTTATTTGGAGATAAGTCTCTGCAGATGTA 1831  1832 GTTAGTTAAGACAAGGTCATGCTGGATGAAGGTAGACCTAAATTCAATATGACTGGTTTC 1858  1832 GTTAGTTAAGACAAGGTCATGCTGGATGAAGGTAGACCTAAATTCAATATGACTGGTTTC 1891  1859 CTTGTATGAAAAGGAGAACAACAGAGACAGAGACGAGAAGACTAATGTAAAGAT 1918		1979 ATCAGAAGCTTGGAAGAGCGAAGAATTCTTCCCTAGAGGCTTTAGAGGGATAACGG 2038  2012 ATCAGAAGCTTGGAAGAGCCAAGAATTCTTCCCTTGGTTTTTTTT	2099 GCTGTTTTAAGCCACCAAGGATAATTGGTTACAGCAGCTCTAGGAAACTAATACAGCTGC 2158  2132 GCTGTTTTAAGCCACCAAGGATAATTGGTTACAGCAGCTCTAGGAAACTAATACAGCTGC 2151  2132 GCTGTTTTAAGCCACCAGGATAATTGGTTACAGCAGCTCTAGGAAACTAATACAGCTGC 2191  2159 TAAAATGATCCCTGTCTCCTGTGTTACATTCTGTGTGTCCCCTCCCCAATGTACC 2218  2192 TAAAATGATCCCTGTCTCTCGTGTTTACATTCTGTGTCTCCCCTCCCCACAATGTACC 2251  2219 AAAATGATCCCTGTCTCTCGTGTTTACATTCTGTGTCTCCCCTCCCACAATGTACC 2251  2219 AAAATGATCCCTTTGTGGTCTCTTGTGTCTCCCTCCCACAATGTACC 2251
8 6 8 6 8 6 8	8 6 8 6	8 8 8 8	4 6 4	8 8 8 8 8	3 6 6 6	6 6 6	\times \text{\tin}\text{\tint{\text{\tin\tint{\text{\text{\text{\text{\text{\text{\tin}\text{\text{\ti}\tint{\text{\text{\text{\text{\text{\text{\text{\text{\text{\ti}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\ti}\tint{\text{\text{\text{\ti}\til\titt{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\ti}}\tilit{\text{\text{\texi}\tilit{\text{\texi}\til\til\til\til\tiitt{\text{\text{\texit{\til\tii}\tilit{\text{\tii}\tilitt{\text{\texi}\tii}\text{
TGAAGGACTCGGCATTGAAGGTGCTTTATCTGCATAATAACCAGCTTCTAGCTGGA	273 GGGTGGGCAGGACCCGACTCTAACACTAGAACATGAAACATCATGGAGCTCTATCTTG 332 301 GTGCCAAGGAATCCAAGAGCTTCACCTTCTACGGGGACATGGGGCTCACCTCCAGCT 360	421 TCAGACTCACCCAGCTTCCCGGGAATGGTGGCTGGAATGCCCCCATCACAGACTTCTACT 480	541 GTGAGGGTGAGTGAGGAGACCCATGGCGACAATCACTCTTCTGCTCTCAGGACCCC 600  [	661 CTGAGATTIGGAGCTCCAGGGTCCTCCCCCACTGGATGGTGCTACTGCTGGAAC 720	781 GTGGGGGAGTGCTCGGAATCATTCCTGCTTAATGGTAACTGACAAGTGTTACCCTGAGCC 840	901 CTCTCACCACCACTGTGCAGGAGGAGGTGGTCATAGAGTCAGGGATCTATGGCCCT 960	TCTTCCCTCATCATCTTGTTGTGGGCATGAGGAGGTGGTGATGTCAGAAGAAATGGTTCG

ପୁ	2252 AAAGITGICTITGIGA-CCAAIAGAAIAIGGCAGAAGIGAIGGCAIGCCACIICCAAGAI 2310	qq	134 AGGGGAGTCTACACCCTGTGGAGCTCAAGATGGTCCTGAGTGGGGGGGCGCTGTGCTTCCGAA 193
& 93	2279 TAGGTTATAAAAGACACTGCAGCTTCTACTTGAGCCCTCTCTCT	ćo q	61 TGAAGGACTCGGCATTGAAGGTGCTTTATCTGCATAATAACCAGCTTCTAGGAGGGC 120
& 93 6	2339 CCAATCTATCTTGGCTCACTCGGCGGAAGCTAGCTGCCATGCTATGAGCAGGCCT 2398 2371 CCAATCTATCTTGGCTCACGCTCTGGGGAAGCTAGCTGCCATGCTATGAGCAGGCCT 2430	& g	121 TGCATGCAGGAAGGTCATTAAAGGTGAAGAGATCAGCGTGGTCGTCCCCAATCGGTGGTGG 180
Qy Db	2399 ATRAAGAGACTTACGTGGTAAAAATGAAGTCTCCTGCCCACACACA	& g	181 ATGCCAGCCTGTCCCCGTCATCCTGGGTGTCCAGGGTGGAAGCCAGTGCCTGTCATGTG 240
Oy Db	2459 AGAAGCAGAGACTCTGTGAGATAATCGATGTTTGTTGTTTT-AAGTTGCTCAGTTTTGGT 2517 2491 AGAAGCAGAGAGACTCTGTGAGATAATCGATGTTTGTTGTTGTTTTAAGTTGCTCAGTTTTGGT 2550	<i>≿</i> 6	241 GGGTGGGGCAGGACCCGACTCTAACACTAGAGCCAGTGAACATCATGGAGCTCTATCTTG 300
λ S	2518 CTAACTIGITAIGCAGCAATAGATAAATAIGCAGAGAAGAGA	& q	301 GTGCCAAGGAATCCAAGACTTCACCTTCTACCGGGGGGACATGGGGGTCACCTCCAGGT 360
RESULT 15 AF186094 LOCUS	ř.	oy Op	
DEFINITION ACCESSION	N Homo sapiens interleukin-1 receptor antagonist homolog (ILIHY1) mRNA, complete cds. AF186094 AF186004	දු දු	421 TCAGACTCACCCAGCTTCCCGAGAATGGTGGCTGGAATGCCCCCATCACAGACTTCTACT 480 554 TCAGACTCACCAGCTTCCCGAGAATGGTGGCTGGAATGCCCCCATCACAGACTTCTACT 613
VERSION KEYWORDS SOURCE ORGANISM	Arisbuya.i Gi.bu4y804 Homo sapiens (human) Homo sapiens	රු සි	481 TCCAGCAGTGTGACTAGGGCAACGTGCCCCCCAGAACTCCCTGGGCAGAGCCAGCTCGG 540
REFERENCE AUTHORS		ç Q	541 GTGAGGGGTGAGTGGAGGACCCATGGCGGACAATCACTCTTTCTGCTCTCAGGACCCC 600
TITLE JOURNAL MEDLINE	Drmanac, R. and Ford, J.B.  ILJHY1: A novel interleukin-1 receptor antagonist gene Biochem. Biophys. Res. Commun. 263 (3), 702-706 (1999) 99443727	දු දු	601 CAGGICTGACTIAGIGGGCACCTGACCACTITGICTICTGGTICCCAGTITGCATAAAIT 660 
PUBMED REFERENCE AUTHORS		& 43	661 CTGAGATTTGGAGCTCAGGGTCCTCCCCCACTGGATGGTACTGCTGTGGAAC 720
TITLE JOURNAL FEATURES	Direct Submi Submitted (1 Almanor Ave. Loo	& 43	721 CTTGTAAAAACCATGTGGGGTAAACTGGGAATAACATGAAAAGATTTCTGTGGGGGTGGG 780 
sourc	0	& ଶ	781 GTGGGGGAGTGCTGGGAATCATTCCTGCTTAATGGTAACTGACAGAGTGTTACCTGAGCC 840
gene		ò d	841 CCGCAGGCCAACCCACTTCCCAGTTGAGCCTTATAGGGTCAGTAGCTCTCCACATGAAGTC 900
	<pre>/note="IL-Ira homolog" /codon start=1 /product="interleukin-1 receptor antagonist homolog" /protein_id="AAP2757.1"</pre>	ζς Op	o-o
	/db_xret="G1: 6049805" /translation="MVLSGALCFRMKDSALKVLYLHNNQLLAGGLHAGKVIKGEEISV VPNRWLDASLSPYILGYVQGGSQCLSCGYGQEPTLTLEPVNIMEJYLGAKRSKSFTFYR RDMGLTSSFESAAYPGWFLCTVPEADQPVRLTQLPENGGWNAPITDFYFQQCD"	λ q	961 TGGCCCACCCCACCCCTTCCTTT-ATCTGCCACTGTCATATGCTACCTTTCCTATC 1019
ORIGIN Query Ma Best Lo	atch 97.1%; Score 2488.4; DB 9; Length 2720; cal Similarity 99.4%; Pred. No. 0;	ò a	1020 TCTTCCCTCATCATCTTGTTGTGGGCATGAGGGGGTGGTGATGTGTCAAAGAAATGGTTCG 1079 1153 TCTTCCCTCATCATCATGTTGTGGGGCATGAGGAGGTGGTGGTGATGAGAAAAGAAATGGCTCG 1212
Marches	2550; CONBELVATIVE 0; 1 AGGGAGTCTACACCCTGTGGAC	ζς q	1080 AGCTCAGAAGATAAAGATAAGGGTATGCTGATCCTCTTTTAAAAACCCAAGATACA 1139 1213 AGCTCAGAAGATAAAGGTAAGGGTATGCTGATCCTCTTTTAAAAACCCAAGATACA 1272

```
ATAAAGAGACTTACGTGGTAAAAATGAAGTCTCCTGCCCACAGCCACATTAGTGAACCT
2005, 15:49:10
                                                                                     13,
                                                                                     Search completed: March Job time: 11345.9 secs
                    2412
                                         2399
                                                2532
                                                      2459
                                                             2592
                                                                    2518
2219
       2353
              2279
                           2339
                                  2472
                                                                           2652
     ò
                               1318
                                            1378
                                                          1438
                                                                 1572
                                                                        1498
                                                                              1632
                                                                                                   1618
                                                                                                                              1738
                                                                                                                                     1872
                                                                                                                                                                       1918
                                                                                                                                                                                            2112
                                                                                                                                                                                                  2038
                                                                                                                                                                                                         2172
                                                                                                                                                                                                                             2158
                                                                                                                                                                                                                                           2218
                                                                                                                                                                                                                                                  2352
          1332
                 1258
                        1392
                                     1452
                                                                                     AGAACAAAAATCATCTGGTAATTCTTTCCTAGAAGGATCACAGCCCCTGGGATTCCAAGG 1678
                                                                                                                                           ACATCCTTCGGAATCTCAGTCTGTGAGTTTATTTGGAGATAAGGTCTCTGCAGATGTA 1798
                                                                        TARARA TGATCCCTGTCTCCTCGTGTTTACATTCTGTGTGTGTCCCCTCCCCACATGTACC
                                                                                                                                                                       CTTGTATGAAAAGGAGAACACAGAGACAAGAGAGACGCGGGGAAGACTATGTAAAGAT
    ATATTTCTTTATAGAAAAAGTCTGGAAGAGTTTACTTCAATTGTAGCAATGTCAGGGTG
                                            1439
                                                                              1573
                                                                                      1499
                                                                                            1633
                                                                                                   1559
                                                                                                          1693
                                                                                                                 1619
                                                                                                                       1753
                                                                                                                              1679
                                                                                                                                     1813
                                                                                                                                                  1873
                                                                                                                                                          1799
                                                                                                                                                                 1933
                                                                                                                                                                       1859
                                                                                                                                                                              1993
                                                                                                                                                                                     1919
                                                                                                                                                                                            2053
                                                                                                                                                                                                   1979
                                                                                                                                                                                                         2113
                                                                                                                                                                                                                2039
                                                                                                                                                                                                                       2173
                                                                                                                                                                                                                              2099
                                                                                                                                                                                                                                     2233
                                                                                                                                                                                                                                           2159
                                                                                                                                                                                                                                                  2293
    1140
          1273
                 1200
                               1259
                                     1393
                                             1319
                                                   1453
                                                          1379
                                                                 1513
                                                                                                                                            1739
                                                                                                                                                                                                                                  g
                                                                                     8 8 8
                                                                                                        8 6 8
                                                                                                                                           8 &
                                                                                                                                                       8 6 8 6
                                                                                                                                                                                    8 6 8 6
                                                                                                                                                                                                               $ 8 $
                                                                                                                                                                                                                                           ò
    8 6
               ઠે
                      6 B 6 B
                                                 6 8 6 8
                                                                             පු
                                                                                                                            ል 8
```

ı

OM nucleic

. :

Sequence:

Searched:

Database

```
AC125699 Mus muscu
AC125545 Rattus no
AC125545 Rattus no
AC125545 Rattus no
AC161161 Sequence
X74436 H.sapiens (
AL109615 Human DNA
AC168526 Homo sapi
AC129288 Mus muscu
AC129288 Mus muscu
AC127371 Homo sapi
AC12928 Mus muscu
AC11972 Mus muscu
AC11765 Human DNA
AL13923 Homo sapi
AC139306 Human DNA
AL138492 Human DNA
AL138493 Human DNA
AL138498 Callithri
AC115701 Mus muscu
AC118189 Rattus no
AC112265 Mus muscu
                                                                                                                                                                                                                                                                                                                   PAT 22-FEB-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PAT 23-FEB-2001
                                                                                                                                                                                                                                                                                                                                                                                  Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length 42;
                                                                                                                                                                                                                                                                                                                   linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match 100.0%; Score 42; DB 6; Length 42 Best Local Similarity 100.0%; Pred. No. 0.0027; Matches 42; Conservative 0; Mismatches 0; Indel8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 AAGGAAGGAGGAAGGAAGGAAGGAAGGAAGGAAGAAA 42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 AAGGAAGGAGGAAAGGAAAGGAAGGAAGGAAGAAAA
                                                                                                                                                                                                                                                                                                                                                                                                      1
Nicklin,M. and Barton,J.
The il-11 gene and polypeptide products
Patent: WO 0105974-A 3 25-JAN-2001;
Interleukin Genetics, Inc. (US)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /mol_type="unassigned DNA"
/db_xref="taxon:9606"
                                                                                                                                                                                                                                                                      ALIGNMENTS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        73 bp
Sequence 16 from Patent WO0105974.
AX080404
                                                                                                                                                                                                                                                                                                                                                                                                                                                              1. .42
/organism="Homo sapiens"
                                                                                                                                                                                                                                                                                                                   AX080391 42 bp
Sequence 3 from Patent WO0105974
                                     ARO61161
HSDNAPLYF
HS1120P11
AC068526
AL160273
                                                                                     AC027271
AC129288
          AC127790
AC125545
A45356
                                                                                                               AC119172
AC117652
AC092068
                                                                                                                                           AL591024
AL139253
AL358492
                                                                                                                                                                       AL663066
                                                                                                                                                                                AC151430
AC151430
AC134641
                                                                                                      AC002487
                                                                                                                                                                                                             AC151388
                                                                                                                                                                                                                                                                                                                                               AX080391.1 GI:13159842
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AX080404.1 GI:13159847
                                        Homo sapiens (human)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Homo sapiens (human)
                                                446
146655
148831
159934
177985
179082
181588
224649
 198133
233775
239621
                                                                                                                        226460
75782
76721
125062
135992
160589
                                                                                                                                                                                184915
184915
186306
187733
                                                                                                                                                                                                                     201532
205029
206352
                                                                                                                                                                                                                                                                                                                                                                          Homo sapiens
 AX080391
                                                                                                                                   ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 2
AXO80404
LOCUS
DEFINITION
ACCESSION
VERSION
VERSION
CETWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                           DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                     REFERENCE
AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                  JOURNAL
                                                                                                                                                                                                                                                                                                         AX080391
LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                    FEATURES
  υ
                                                                                                                                                               υυ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Homo sapi
Rattus no
Homo sapi
Homo sapi
                                                               Sequence
Homo sapi
Homo sapi
Sequence
Homo sapi
A novel i
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Homo sapi
Homo sapi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Ното варі
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AX080391 Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                 Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1 aaggaaggaaggagaaggaa.....gagtgaaggaaggagtgaaa
            GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
                                                                                                                                                                      4708233 seqs, 24227607955 residues
                                                                                                                                                                                         Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SUMMARIES
                                                                                                                                                                                                                                        Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                 nucleic search, using sw model
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AXO80391
AXO80404
HSA24273
BC024747
HSA21133
AF216693
BD211437
AF216693
AR221131
AR302959
AR221131
AR302959
AC01872
AC138781
AC138781
AC138781
AC138781
AC138781
AC038251
AC098251
AC098251
                                                                                                                                           IDENTITY NUC
Gapop 10.0 , Gapext 1.0
                                                                                                                                                                                                             Minimum DB seq length: 0
Maximum DB seq length: 2000000000
                                                                                                     US-09-617-720A-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DB
                                                                                                                                                                                                                                                                                       gb_htg: *
gbb_ov: *
gbb_ov: *
gbb_ov: *
gbb_r: *
                                                                                                                                                                                                                                                                                                                                                                                   gb_sts:*
gb_sy:*
gb_un:*
gb_vi:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2692
6540
6540
7604
7605
7605
7605
7605
197308
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              162771
179257
181262
232443
153269
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length
                                                                                                                                                                                                                                                                               GenEmbl:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        82.4
81.0
81.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query
Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 100.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    100.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       100.0
100.0
100.0
100.0
                                                                                                                                                                                                                                                                                                 Scoring table:
                                                                                                                 Perfect score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score
```

ö

0000

Result

```
12477932
                                                                                                                                                                                                                                           LOCUS
                                                                                                                                                                                                                                                                                                                                                                                       ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PUBMED
REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                        ACCESSION
                                                                                                                                                                                                                                                                                                                         VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                  REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      REMARK
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FEATURES
                                                                                                                                                                                                                            BC024747
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TITLE
                                                                                                                                                                                                     RESULT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /product="interleukin-1-like protein 1"
/protein id="CAB59823.1"
/db_xref="d1:6165336"
/db_xref="COA;09UBH0"
/db_xref="COA;09UBH0"
/db_xref="ToA;09UBH0"
/db_xref="ToA;09UBH0"
/db_xref="ToA;09UBH0"
/db_xref="ToA;09UBH0"
/db_xref="ToA;09UBH0"
/db_xref="ToA;09UBH0"
/db_xref="ToA;09UBH0"
/ramlala.ion="MYLSGALCFRMFOSALKUTLYHNNQLLAGGLHAGKVIKGEEISV
VPNRWLDAS.ISPVILGQQGSGCLSGCGVGQBPTLTLEPVNIMELYLGAKESKSFTPYR
RDMGLTSSFESAAXPGWFLCTVPEADQPVRLTQLPENGGWNAPITDFYFQQCD"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        HSA242738 2604 bp mRNA linear PRI 18-APR-2002
Homo sapiens mRNA for interleukin-1-like protein 1 (ILIL1 gene)
                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Barton,J.L., Herbst,R., Bosisio,D., Higgins,L. and Nicklin,M.J. A tissue specific IL-1 receptor antagonist homolog from the IL-1 cluster lacks IL-1, IL-1ra, IL-18 and IL-18 antagonist activities Eur. J. Immunol. 30 (11), 3299-3308 (2000)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.
                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Direct Submission
Submitted (09-JUN-1999) Nicklin M.J., Division of Molecular a
Genetic Medicine, University of Sheffield, Royal Hallamshire
Hospital, Glossop Road, Sheffield, S10 2JF, UNITED KINGDOM
Location/Qualifiers
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                        ;
                                                                                                                                                                                                                                                              ch 100.0%; Score 42; DB 6; Length 73; Similarity 100.0%; Pred. No. 0.0025; 42; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                 1 AAGGAAGGAGGAAAGGAAGGAAGGAAGGAAGGAGTGAAA 42
                                                                                                                                                                                                                                                                                                                                                                        30 AAGGAAGGAGGAGAAGGGAAGGAAGGAAGGAAGGAAA 71
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              IL1L1 gene; interleukin-1-like protein 1.
                                 Nicklin,M. and Barton,J.
The il-111 gene and polypeptide products
Patent: WO 0105974-A 16 25-JAN-2001;
Interleukin Genetics, Inc. (US)
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  'note="Detween IL1B and IL1RN"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   'function="putative cytokine"
                                                                                                                                         1. .73
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /organism="Homo sapiens"
/mol type="mRNA"
/db_xref="taxon:9606"
/chromosome="2"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            type="placenta"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          codon_start=1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /map="2q12-13"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AJ242738.1 GI:6165335
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          gene="IL1L1"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /gene="IL1L1"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /gene="IL1L1"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2 (bases 1 to 2604)
Nicklin, M.J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Homo sapiens (human)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1. .2604
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 73. .540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       . .2604
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 tissue/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     transcript 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Homo sapiens
                                                                                                                                                                                                                                                                Query Match
Best Local Similarity
Matches 42; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   20545212
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             11093146
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AJ242738
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             polyA_site
                                                                                                                                              source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            source
                     REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT 3
HSA242738
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TITLE
JOURNAL
                                                                                JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MEDLINE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PUBMED
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CDS
                                                                                                                      PEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FEATURES
                                                                                                                                                                                                                            ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                       셤
```

```
BC024747

Homo sapiens interleukin 1 family, member 5 (delta), transcript variant 2, mRNA (cDNA clone MGC:29840 IMAGE:4996939), complete cds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LINL at: http://image.llnl.gov Series: IRAK Plate: 42 Row: k Column: 16 This clone was selected for full length sequencing because it passed the following selection criteria: matched mRNA gi: 27894309. Location/Qualifiers
                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Center code: BCN-HGSC
Web site: http://www.hgsc.bcm.tmc.edu/cdna/
Nobiate: amg@bcm.tmc.edu
Gunaratne, P.H., Garcia, A.M., Lu, X., Hulyk, S.W., Loulseged, H.,
Kowis, C.R., Sneed, A.J., Martin, R.G., Muzny, D.M., Nanavati,
A.N., Gibbs, R.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Direct Submission
Submitted (01-MRZ-2002) National Institutes of Health, Mammalian
Gene Collection (MGC), Cancer Genomics Office, National Cancer
Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590,
                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Contact: MGC help desk Framil: Contact: MGC help desk Famil: cgapbs-r@mail.nih.gov
Tissue Procurement: ATCC
cDNA Library Preparation: Life Technologies, Inc.
DNA Library Arrayed by: The I.M.A.G.B. Consortium (LINL)
DNA Sequencing by: Baylor College of Medicine Human Genome Sequencing Center
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Proc. Natl. Acad. Sci. U.S.A. 99 (26), 16899-16903 (2002)
                                                             ..
                     Length 2604;
Score 42; DB 9; Lengtu ...
Pred. No. 0.0014;
                                                                                                                                             1 AAGGAAGGAGGAAGGAAGGAAGGAAGGAAGGAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NIH-MGC Project URL: http://mgc.nci.nih.gov
    100.0%; Scc...
100.0%; Pred. No. v...
0, Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           human and mouse cDNA sequences
                                                                                                                                                                                                                                                                                                                 BC024747
BC024747.1 GI:19353229
                                                                                                                                                                                                                                                                                                                                                                                Homo sapiens (human)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (bases 1 to 2692)
                     Query Match
Best Local Similarity 100.
Matches 42; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Strausberg, R.
                                                                                                                                                                                                                                                                                                                                                                                                        Homo sapiens
```

```
Barton,J.L., Herbst,R., Bosisio,D., Higgins,L. and Nicklin,M.J.
A tissue specific IL-1 receptor antagonist homolog from the IL-1
cluster lacks IL-1, IL-1ra, IL-18 and IL-18 antagonist activities
Eur. J. Immunol. 30 (11), 3299-3308 (2000)
                                                                                                                                                                                                                                            Direct Submission
Submitted (17-JAN-2000) Nicklin M.J.H., Division of Molecular and
Genetic Medicine, University of Sheffield, Royal Hallamshire
Hospital, Sheffield, South Yorkshire, UNITED KINGDOM
Location/Qualifiers
                                                                       Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      join(1220. .1248,2631. .2716,3905. .4032,4234. .4458)
gene="ILiLi"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                oin(<969. .1022,1193. .1248,2631. .2716,3905. .4032,
                                                                                                                                                                                                                                                                                                                                                                                                                                  Join(<451. .524,1193. .1248,2631. .2716,3905. .4032,
4234. .6522)
/gene="ILLIL"
/gene"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              \bar{f}unction="putative cytokine or cytokine antagonist" (codon_start=1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        note="unnamed protein product; uORF"

'codon_start=1
              AJ271338.1 GI:6729586
IL1L1 gene; interleukin-1 like protein 1.
Homo sapiens (human)
Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    proteIn id="CAB67703.1"

/db xref="GI:6729587"

/db_xref="UniProt/TrEMBL:09NY32"

/translation="MAGRKDRGEGEGKE"
                                                                                                                                                                                                                                                                                                                  1. .6540
/organism="Homo sapiens"
/nol_type="genomic DNA"
/db_xref="taxon:9606"
/chromosome="2"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             4234. .6522)
/gene="IL1L1"
/note="alternative"
                                                                                                                                                                                                                                                                                                                                                                                                                  /clone="PAC 131J6"
451. .6522
/gene="IL1L1"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               <451. .524
/gene="IL1L1"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          .023. .1192
gene="IL1L1"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             457. .507
/gene="IL1L1"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     525. .968
/gene="IL1L1"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             969. .1022
/gene="IL1L1"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1193. .1248
/gene="IL1L1"
                                                                                                                                                                                                                 2 (bases 1 to 6540)
Nicklin,M.J.H.
                                                                                                                                                                                                                                                                                                                                                                                                       /map="2q13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             number=2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           number=2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               number=1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   number=1
 4J271338
                                                                                                                                                                                                    11093146
                                                                                                                                                                                                                                                                                                                              source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       intron
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           intron
                                                            ORGANISM
                                                                                                       REFERENCE
AUTHORS
TITLE
                                                                                                                                                                                                                                               TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                     gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  mRNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 mRNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                exon
 ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                exon
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          exon
               VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                 REFERENCE
                                                                                                                                                                                                                                  AUTHORS
                                                                                                                                                                      JOURNAL
                                                                                                                                                                                                    PUBMED
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CDS
                                                                                                                                                                                                                                                                                                         FEATURES
                                                                                                                                                                                                                                                                          ö
                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRI 18-APR-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PAT 22-FEB-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Buteleostomi,
Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           HSA271338 6540 bp DNA linear PRI 18-APR-;
Homo sapiens IL1L1 gene for interleukin-1 like protein 1, exons
                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ch 100.0%; Score 42; DB 6; Length 6540; Similarity 100.0%; Pred. No. 0.0012; 42; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                    100.0%; Score 42; DB 9; Length 2692; 100.0%; Pred. No. 0.0013;
                                                                                                                                                                                                                                                               5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            linear
                                                           /tissue type="Placenta, choriocarcinoma"
/clone lib="NIH MGC_10"
/lab_host="DH10B"
                                                                                                                                                                                                                                                                                                                                                                                                                                                    0; Indels
                                                                                                                                                                                                                               /gene="IL1F5"
/codon_start=1
/product="interleukin 1 family, member
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               62 AAGGAAGGAGGACAAGGAAGGAGTGAAGGAAGGAGTGAAA 103
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 AAGGAAGGAGGAGAAGGAAGAAGAGTGAAGGAAGGAGTGAAA
Nicklin,M. and Barton,J.
The il-111 gene and polypeptide products
Patent: WO 0105974-A 43 25-JAN-2001;
Interleukin Genetics, Inc. (US)
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DNA
                                                                                                         /note="Vector: pCMV-SPORT6"
                                                                                                                                                                                                                                                                                                                                                                                                                                                    0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AX080431 6540 bp
Sequence 43 from Patent WO0105974.
AX080431
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AX080431.1 GI:13159871
                                                                                                                                       /gene="IL1F5"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Homo sapiens (human)
                                                                                                                                                                                                                                                                                                                                                                                                                                                    42; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1, .6540
                                                                                                                       .. .2692
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Best Local Similarity
Matches 42; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                  Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RESULT 6
HSA271338
LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AX080431
LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ACCESSION
VERSION
                                                                                                                           gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                    Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     KEYWORDS
SOURCE
                                                                                                                                                                                                                  CDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RESULT 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FEATURES
                                                                                                                                                                                                                                                                                                                                                                                       ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
```

ò 셤 ઠે

```
/product="interleukin-1 receptor antagonist homolog 1"
/protein id="AAR76981.1"
/db_xref="G1:8872055"
/translation="WVLSGLFRMEDSALKVLXLHNNQLLAGGLHAGKVIKGEEISV
VPNRWLDASISPVILGAVQGSQCLSGGVGQEPTLTLEPVNIMELYLGAKESKSFTFYR
RDMGLTSSFESAAYPGWFLCTVPEADQPVRLTQLPENGGWNAPITDFYFQQCD"
                                                                                                                                                                                                                                                                                                                                                                                                    BD211437 7605 bp DNA linear PAT 17-JUL-2003 A novel interleukin-1 receptor antagonist and uses thereof. BD211437
                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PAT 20-APR-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PROSECUTION OF SERVICES (Human)

PN JP 2002510492-A/6

PD 09-APR-2002

PF 03-APR-1999 JP 2000542457

PR 03-APR-1998 US 09/055010,15-MAY-1998 US 09/079909 PR

20-MAY-1998 US 09/12568,13-JAN-1999 US 09/229591 PR

11-PEB-1999 US 09/1251370

PI JOHN PORD, ANN PACE

PC CI2N15/09,A61K38/00,C07K14/52,C07K14/545,C07K16/24,C12N1/15,PC C12N1/19.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A novel interleukin-1 receptor antagonist and uses thereof FH Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Euteleostomi;
oin(2088. .2116,3504. .3589,4777. .4904,5106. .5330)
/gene="ILLHY1"
/codon_start=1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Eutelec Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. 1 (bases 1 to 7605)
Ford, J. and Pace, A.
Ford, J. and Pace, A.
Parent: JP 2002510492-A 6 09-APR-2002;
HYSEQ INC
                                                                                                                                                                                                                                          ..
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      organism='Homo sapiens (human)'.
                                                                                                                                                                                                   Length 7604;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length 7605;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 100.0%; Score 42; DB 6; Length 76
100.0%; Pred. No. 0.0011;
ive 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  linear
                                                                                                                                                                                                                                        0; Indels
                                                                                                                                                                                                                                                                                                1 AAGGAAGGAGAAGGGAAGGAAGGAAGGAAGGAAGAAAA 42
                                                                                                                                                                                                                                                                            1 AAGGAAGGAGAAGGAAAGGAAGGAAGGAAGGAAGTGAAA
                                                                                                                                                                                                     100.0%; Score 42; DB 9;
100.0%; Pred. No. 0.0011;
iive 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1. .7605
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                7605 bp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     . .7605
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                          BD211437.1 GI:33021207
JP 2002510492-A/6.
Homo sapiens (human)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A61K37/02, C12N5/00
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local Similarity 100.0
Matches 42; Conservative
                                                                                                                                                                                                      Query Match
Best Local Similarity 100.
Matches 42; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                C12N15/00
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AR181997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Key
                                                                                                                                                                                                                                                                                                                                                                                                                                         ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               source
                                                                                                                                                                                                                                                                                                                                                                                                                         DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 9
AR181997
LOCUS
                                                                                                                                                                                                                                                                                                                                                                      RESULT 8
BD211437
     CDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ORIGIN
                                                                                                                                                                     ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            원
                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Homo sapiens interleukin-1 receptor antagonist homolog 1 (IL1HY1)
gene, complete cds.
AF216693.1 GI:8572054
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    203647.7.
203647.8.
2 (bases 1 to 7604)
2 (bases 1 to 7604)
2 Wulero, J.J., Nelken, S.T. and Ford, J.E.
Mulero, J.G., Nelken, S.T. and Ford, J.E.
Direct Volumission
Submitted (15-DEC-1999) Functional Genomics, HYSEQ Inc, 670 Almanor
Submitted (15-DEC-1999) Functional Genomics, HYSEQ Inc, 670 Almanor
Ave., Sunnyvale, CA 94086, USA
Ave., Eccation/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. I (bases I to 7604)
Mulero,J.J., Nelken,S.T. and Ford,J.E.
Organization of the human interleukin-1 receptor antagonist gene ILIHY1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /product="interleukin-1 receptor antagonist homolog 1"
/note="splice variant 1"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             product="interleukin-1 receptor antagonist homolog 1"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /note="splice variant 2"
/join(1857. .1890,2061. .2116,3504. .3589,4777. .4904,
5106. .7394)
/gene="ILHYI"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /map="2q13-q14"
/clon=_lib="CITB_BAC39316"
1300: .7394
/gene="ILIHY1"
join(1306. .1383,2061. .2116,3504. .3589,4777. .4904,
5106. .7394)
/gene="ILIHY1"
                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                  Query Match
100.0%; Score 42; DB 9; Length 6540;
Best Local Similarity 100.0%; Pred. No. 0.0012;
Matches 42; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  42
                                                                                                                                                                                                                                                                                                                                                                                                                                           1 AAGGAAGGAGGAAAGGAAGGAGTGAAGGAAGGAGTGAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Immunogenetics 51 (6), 425-428 (2000)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1. .7604
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db xref="texon:9606"
/chromosome="2"
                                                                                             /number=4
2717. .3904
/gene="IL1L1"
                                                                                                                                                    /number=4
3905. .4032
/gene="IL1L1"
                                                                                                                                                                                                                       4033. .4233
/gene="ILILI"
/number=5
4234. .6522
/gene="ILILI"
/number=6
                                                            2631. .2716
/gene="IL1L1"
       .249. .2630
gene="IL1L1"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Homo sapiens (human)
Homo sapiens
                                                                                                                                                                                                            number=5
                                             number=3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2032247
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
         intron
                                                                                                                  intron
                                                                                                                                                                                                                           intron
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Bource
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PUBMED
REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          mRNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                mRNA
                                                                                                                                                                        exon
                                                               exon
                                                                                                                                                                                                                                                                                   exon
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MEDLINE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT 7
AF216693
LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PEATURES
                                                                                                                                                                                                                                                                                                                                      ORIGIN
```

ò ద ö

```
ACO16724 197308 bp DNA linear PRI 09-JAN-2002
Homo sapiens BAC clone RP11-339F22 from 2, complete sequence.
AC016724
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Armstrong, J. and Haakenson, W.

The sequence of Homo sapiens BAC clone RP11-339F22
The sequence of Homo sapiens BAC clone RP11-339F22
J (bases 1 to 197308)
Waterston, K.H.
Bubmitted (04-DEC-1999) Genome Sequencing Center, Washington University School of Medicine, 4444 Forest Park Parkway, St. Louis, M 6 13108, USA
Waterston, R.H.
                                                                                                                                                                                                                                         PAT 25-JAN-2001
                                                                                                                                                                                                                                                                                                                                                           Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi, Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.
1. (bases 1 to 197308)
Sulston, J.E. and 197308
Toward a complete human genome sequence
Genome Res. 8 (11), 1097-1108 (1998)
                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                     0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                  Query Match 100.0%; Score 42; DB 6; Length 7605; Best Local Similarity 100.0%; Pred. No. 0.0011; Matches 42; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match 100.0%; Score 42; DB 6; Length 7605; Best Local Similarity 100.0%; Pred. No. 0.0011; Matches 42; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                              A interleukin-1 receptor antagonist and uses thereof
Patent: WO 0102571-A 8 11-JAN-2001;
HYSEQ, INC. (US)
                                                                                                                                                                                                                                           linear
                                                                                                                                                     1339 AAGGAAGGAGGAAAGGAAAGGAGTGAAGGAAGGAAGTGAAA 1380
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 AAGGAAGGAGAGAAGGAAGGAGTGAAGGAAGGAGTGAAA 42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 AAGGAAGGAGAGAAGGAAGGAGTGAAGGAAGGAGTGAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1. .7605
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"
                                                                                                                                                                                                                                       AX069311 7605 bp
Sequence 8 from Patent WO0102571.
AX069311
     /mol_type≂"genomic DNA"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AC016724.11 GI:14718389
                                                                                                                                                                                                                                                                                            AX069311.1 GI:12579183
                                                                                                                                                                                                                                                                                                                          Homo sapiens (human)
Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Homo sapiens (human)
Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                              Ford, J. and Pace, A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DEFINITION
ACCESSION
VERSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      source
                                                                                                                                                                                                                                                       DEFINITION
                                                                                                                                                                                                                                                                                                                                             ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           REFERENCE
AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                              TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                            REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TITLE
JOURNAL
                                                                                                                                                                                                        RESULT 12
AX069311
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            JOURNAL
MEDLINE
PUBMED
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AUTHORS
                                                                                                                                                                                                                                                                          ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     REFERENCE
                                                                                                                                                                                                                                                                                            VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AC016724
LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ORIGIN
                                                                                                                                                      g
                                                                                                                         ઠ
                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PAT 26-SEP-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PAT 12-JUN-2003
                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                   1 (bases 1 to 7605)
Ford, J. and Pace, A.
Interleukin-1 receptor antagonist and recombinant production
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          .
0
                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                          Query Match 100.0%; Score 42; DB 6; Length 7605; Best Local Similarity 100.0%; Pred. No. 0.0011; Matches 42; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match 100.0%; Score 42; DB 6; Length 7605; Best Local Similarity 100.0%; Pred. No. 0.0011; Matches 42; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Ford,J., Ho,A.S.Y. and Pace,A.
Interleukin--1 receptor antagonist and uses thereof
Patent: US 6541623-A 8 01-APR-2003;
Location/Qualifiers
1. .7605
/organism="unknown"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1339 AAGGAAGGAGGAGAAGGAAGGAGTGAAGGAAGGAGGAGTGAAA 1380
                                                                                                                                                                                                                                                                                                                                                                                                              1339 AAGGAAGGAGGGAGAAGGGAAGGAGTGAAGGAAGGAGTGAAA 1380
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 AAGGAAGGAGGAAGGAAGGAAGGAAGGAAGGAGTGAAA 42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 (bases 1 to 7605)
Ford, J. and Pace, A.
Assays involving an IL-1 receptor antagonist
Patent: 18 6426191-A 8 30-JUL-2002;
Location/Qualifiers
1. 7605
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DNA
                                                                                                                                                                                    Patent: US 6337072-A 8 08-JAN-2002;
Location/Qualifiers
Location="unknown"
/mol_type="unassigned DNA"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AR221131 7605 bp
Sequence 8 from patent US 6426191.
AR221131
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AR302959 7605 bp
Sequence 8 from patent US 6541623.
AR302959
Sequence 8 from patent US 6337072.
AR181997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /mol_type="genomic DNA"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /organ:sm="unknown"
                                      AR181997.1 GI:20224913
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AR221131.1 GI:23328016
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AR302959.1 GI:31691559
                                                                                                         Unclassified.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Unclassified.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Unclassified.
                                                                      Unknown
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Unknown
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Jnknown.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Unknown
                                                                                         Unknown
                                                                                                                                                                           thereof
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Unknown
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                             source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Bource
   DEFINITION
ACCESSION
                                                                      SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ORGANISM
                                                                                                                                                                                      JOURNAL
FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     JOURNAL
FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AUTHORS
TITLE
JOURNAL
FEATURES
                                                                                                                       REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT 11
AR302959
LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   REFERENCE
                                    VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AR221131
                                                                                                                                                        TITLE
                                                                                                                                                                                                                                                                            ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                ઠે
                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
```

ö

COMMENT

us-09-617-720a-3.rge

```
note="similar to Homo sapiens EST AA587127 (NID:92397941)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         9013. 9031
/note="similar to Homo sapiens EST A1034379 (NID:g3255332)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1003]. 9030
'note="similar to Homo sapiens BST BI091273
'NID:914509603)"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /rpt_family="MIR"
12578. .1214
/rpt_family="MER1_type"
13540. .13855
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8146--.8343

/rpt family="MER1_type"

8344. 9429

/rpt family="L2"

/rpt family="ERV1"

8999. .9029

/rpt family="ERV1"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /rpt_family="MER2_type"
15980, .16836
                                                                                                                                                                                                                                                                                                                                                                                                                                                    /rpt_family="MER1_type"
5152. .5337
/rpt_family="MER1_type"
6118. .7901
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /rpt_family="AT_rich" 19365. .19493
                                                                                                                                                                                                                                                                                                                                                    /rpt_family="AT_rich"
4311. .4450
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /rpt_family="(TG)n"
11651. 11884
/rpt_family="MaLR"
12198. 12353
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           'rpt_family="(CTG)n"
1587. .11611
                                                                     /rpt_family="ERV1"
                                                                                                                 2105. .2161
/rpt_family="ERV1"
2245. .2507
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /rpt_family="Alu"
18067. .18089
                                                                                                                                                                                                                                                                                                                                                                                    4311. .4450
/rpt_family="MIR"
4822. .4957
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0x20g11.x1"
9167. .9564
/rpt_family="L2"
10187. .10267
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        'rpt_family="Alu"
3985. .14843
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /rpt_family="MIR"
11074. .11122
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                'rpt_family="L1"
[4923]. .15243
                                                                                                                                                                                                                                /rpt_family="Alu"
2878. .3244
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   'rpt_family="L1"
[7526. .17822
                                                                                                                                                                                                                                                                                                                 /rpt_family="L1"
3460. .3481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     6118. .7901
/rpt_family="L2"
8008. .8145
    917. .. 1361
/rpt_family="L1"
1362. .1814
                                                                /rpt_family="L1"
1838. .1952
                                                                                                                                                                                               /rpt_family="L1"
2588. .2877
                                                                                                                                                                                                                                                                               /rpt_family="L1"
3235. .4195
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /rpt_family="L2"
3146. .8343
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       nn70c01.s1"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      repeat_region
                                                                                                                                                                                                                                                                                                                                                       repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                 repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                         repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        repeat_region
                                                                                                                                                                                  repeat_region
                                                                                                                                                                                                                            repeat_region
                                                                                                                                                                                                                                                                      repeat_region
                                                                                                                                                                                                                                                                                                              repeat_region
             repeat_region
                                                                                               repeat_region
                                                                                                                                       repeat_region
                                                     repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   misc_feature
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          misc_feature
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             misc_feature
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The RPCI-11 human BAC library was made from the blood of one male donor, as described by Osoegawa, K., Woon, P.Y., Zhao, B., Frengen, E., Tateno, M., Catanese, J. J. and de Jong, P.J. (1998) An improved approach for construction of bacterial artificial chromosome libraries. Genomics 51:1-9. The clone may be obtained either from Research Genteics, Inc. (http://www.resgen.com) or Pieter de Jong and coworkers at the Roswell Park Cancer Institute
(http://bacpac.med.buffalo.edu)
Submitted (14-JUL-2001) Genome Sequencing Center, Washington University School of Medicine, 4444 Forest Park Parkway, St. Louis, MO 63108, USA 5 (bases 1 to 197308)

S (bases 1 to 197308)

Materston, R.

Direct Submission
Submitted (09-JAN-2002) Department of Genetics, Washington Submitted (09-JAN-2002) Department of Genetics, Mashington University, 4444 Forest Park Avenue, St. Louis, Missouri 63108, USA ON Jul 14, 2001 this sequence version replaced gi:13431151.

Center: Washington University Genome Sequencing Center
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mapping information for this clone was provided by Dr. John D. McPherson, Department of Genetics, Washington University, St. Louis MO. For additional information about the map position of this sequence, see http://genome.wustl.edu/gsc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      VECTOR: PBACE3.6
NEIGHBORING SEQUENCE INFORMATION:
NEIGHBORING SEQUENCE INFORMATION:
The clone sequenced to the left is RP11-72543; the clone sequenced
to the right is RP11-9714. Actual start of this clone is at base
position 1 of RP11-339F22; actual end is at base position 197308 of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Data from AC084280 and AC024704 was used to finish this clone, AC016724. Polymorphisms have been identified between AC024704 and AC016724.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     This sequence was finished as follows unless otherwise noted: all regions were double stranded, sequenced with an alternate chemistry, or covered by high quality data (i.e., phred quality >= 30); an attempt was made to resolve all sequencing problems, such as compressions and repeats; all regions were covered by sequence from more than one subclone; and the assembly was confirmed by restriction digest.
                                                                                                                                                                                                                                                                                                                                                                                               NOTICE: This sequence may not represent the entire insert of this clone. It may be shorter because we only sequence overlapping clone sections once, or longer because we provide a small overlap between neighboring data submissions.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence derived from por from base position 148683 to 149264.
Location/Qualifiers
                                                                                                                                                                                                                                                                           Web site: http://genome.wustl.edu/gsc
Contact: sapiens@watson.wustl.edu
                                                                                                                                                                                                                                                                                                                                     Center project name: H_NH0339F22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
                                                                                                                                                                                                                                                                                                                 Summary Statistics
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            'clone="RP11-339F22"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     clone_lib="RPCI-11"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      rpt_family="L1"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 274. ..740
/rpt_family="L1"
744. ..907
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        chromosome="2"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MAPPING INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SOURCE INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          map="2'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RP11-339F22.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             repeat_region
                                                                                                          AUTHORS
TITLE
JOURNAL
    TITLE
JOURNAL
                                                                                      REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FEATURES
```

Washington

```
wilson, R.

Milson, R.

Direct Submission
Submitted (30-MAY-2003) Department of Genetics, Washington
Submitted (30-MAY-2003) Department of Genetics, Missouri 63108, USA
University, 4444 Forest Park Avenue, St. Louis, Missouri 63108, USA
On Apr 3, 2003 this sequence version replaced gi:27923720.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MAPPING INFORMATION:
Mapping information for this clone was provided by Dr. John D.
MoPherson, Department of Genetics, Washington University, St. Louis
MCPherson, Department of Genetics, Washington University, St. Louis
MMO. For additional information about the map position of this
sequence, see http://genome.wustl.edu/gsc
      Submitted (03-APR-2003) Genome Sequencing Center, Washington Indusersity School of Medicine, 4444 Forest Park Parkway, St. Louis, MO 63108, USA (Contemporate Park Parkway), St. Louis, (Contemporate Parkway), St. Louis, (Contemporate Parkway), St. Louis, MO 63108, USA (Contemporate 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NOTICE: This sequence may not represent the entire insert of this clone. It may be shorter because we only sequence overlapping clone sections once, or longer because we provide a small overlap between neighboring data submissions.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              This sequence was finished as follows unless otherwise noted: all regions were double stranded, sequenced with an alternate chemistry, or covered by high quality data (i.e., phred quality >= 30); an attempt was made to all sequencing problems, such as compressions and repeats, all regions were covered by sequence from more than one subclone; and the assembly was confirmed by
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NEIGHBORING SEQUENCE INFORMATION:
This sequence is not the entire insert of the clone. This clone is
overlapped by AC108073.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The RPCI-11 human BAC library was made from the blood of one male donor, as described by Oscegawa, K., Woon, P.Y., Zhao, B., Frengen, B., Tatemo, M., Catanese, J.J. and de Jong, P.J. (1998) An improved approach for construction of bacterial artificial chromosome libraries. Genomics 51:1-8 The Clone may be obtained either from Research Genetics, Inc. (http://www.resgen.com) or Pieter de Jong and coworkers at http://www.chori.org
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Data from AC133529 was used to finish this clone
                                                                                                                                                                                                                                                                                                                                                                                            organism="Homo sapiens"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /mol_type="genomic_DN/db_xref="taxon:9606"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        clone_lib="RPCI-11"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /rpt_family="Alu"
933. 1449
/rpt_family="ERVL"
1557. 1850
/rpt_family="Alu"
2004. 2097
/rpt_family="MalR"
2808. 2995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /clone="RP11-366H4"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /rpt_family="MaLR"
2906. .3219
/rpt_family="Alu"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        chromosome="4"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SOURCE INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1. .162771
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 restriction digest.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  VECTOR: pBACe3.6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     "ap="4"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                source
                                                                                                      REFERENCE
AUTHORS
             JOURNAL
                                                                                                                                                                                                   JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FEATURES
                                                                                                                                                                                                                                                                     COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRI 30-MAY-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Submitted (17-MAR-2003) Genome Sequencing Center, Washington University School of Medicine, 4444 Forest Park Parkway, St. Louis, 06 3108, USA
5 (bases 1 to 162771)
Waterston, R.H.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Submitted (16-JAN-2003) Genome Sequencing Center, Washington
University School of Medicine, 4444 Forest Park Parkway, St. Louis,
MO 63108, USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi, Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.
1 (Bases 1 to 16271)
Sulston,J.E. and Wilson,R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ACI38781 162771 bp DNA linear PRI 30-M
Homo sapiens BAC clone RP11-366H4 from 4, complete sequence.
ACI38781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match 100.0%; Score 42; DB 9; Length 197308; Best Local Similarity 100.0%; Pred. No. 0.00066; Matches 42; Conservative 0; Mismatches 0; Indels 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        rpt_family="ккvi"
17616. .28020
'note="match to EST AW937349 (NID:g8112771)"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  107929 AAGGAAGGAGAAAGGAAGGAAGGAAGGAAGGAAGGAGTGAAA 107970
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2 (bases 1 to 162771)
Haglund, K. and Kim, K.
The sequence of Homo sapiens BAC clone RP11-366H4
Upublished (2001)
3 (bases 1 to 162771)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1 AAGGAAGGAGGAAGGAAGGAAGGAAGGAAGGAGTGAAA 42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Toward a complete human genome sequence
Genome Res. 8 (11), 1097-1108 (1998)
'rpt_family="MER1_type"
19604. .20083
                                                                                                                                                                                                                                                                                                                                                                                            /rpt_family="ERVL"
22533. .22637
/rpt_family="MER2_type"
22668. .22977
                                                                     /rpt_family="ERVL"
20084. 20047
20448. 21020
/rpt_family="ERVL"
20448. 21020
/rpt_family="ERVL"
21033. 2106
/rpt_family="L1"
21315. 21656
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           23349. .23852
/rpt_family="L1"
25801. .25931
/rpt_family="ERVL"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         'rpt_family="ERVL"
3349. .23852
                                                                                                                                                                                                                                                                                                                                 'rpt_family="ERVL" 11906. .22079
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   28743. .28984
/rpt_family="CR1"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /rpt_family="L2"
28743. .28984
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AC138781.4 GI:29501949
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               4 (bases 1 to 162771)
Waterston, R.H.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Homo sapiens (human)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Direct Submission
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Direct Submission
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Direct Submission
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    9847074
                                           repeat_region
                                                                                                             repeat_region
                                                                                                                                                                                                                                       repeat_region
                                                                                                                                                                                                                                                                                                      repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                 repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          repeat_region
                                                                                                                                                                        repeat_region
                                                                                                                                                                                                                                                                                                                                                                     repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            misc_feature
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 14
AC138781/c
LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AUTHORS
TITLE
JOURNAL
MEDLINE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PUBMED
REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        JOURNAL
REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     REFERENCE
```

ઠે 셤

```
/rpt_family="Alu"
14912. 15247
/rpt_family="L1"
15248. 15536
/rpt_family="Alu"
15545. 15890
/rpt_family="L1"
15892. 15956
/rpt_family="L1"
15892. 15956
/rpt_family="MER2_type"
15977. 16280
/rpt_family="MER2_type"
16281. 16412
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /rpt_family="12"
16504".16527
/rpt_family="AT_rich"
16772..16809
/rpt_family="AT_rich"
                                                                                                                                                                                                                                                                                                                    rpt_family="MER1_type"
843, .5904
rpt_family="T-rich"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  / rpt family="Alu"
11476. 11526
11527. 11834
/ rpt family="MIR"
11835. 11960
/ rpt family="MIR"
12069. 12365
/ rpt family="MIR"
12069. 12365
/ rpt family="Alu"
12410. 12516
/ rpt family="Alu"
12520. 12560
/ rpt family="Alu"
                                                                                                                                                                                                                                                                                                                                                                                                                                                              100 f. 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /rpc_family= ...
14475. 14506
/rpc_family="(TA)n"
14507. .14574
/rpc_family="Alu"
14582. .14896
/rpt_family="Alu"
                                                                                                                                   /rpt_family="U6"
4999. .5020
/rpt_family="(CA)n"
5113. .5402.
/rpt_family="Alu"
5450. .5518
                                                                                                                                                                                                                                                                                                                                                                                           rpt_family="MaLR"
                                                                                  family="Alu" .4583
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   repeat_region
repeat_region
                                                          repeat_region
                                                                                                                       repeat_region
                                                                                                                                                                              repeat_region
                                                                                                                                                                                                                                        repeat_region
                                                                                                                                                                                                                                                                                               repeat_region
                                                                                                                                                                                                                                                                                                                                                         repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         repeat_region
```

K

```
AC133529 179257 bp DNA linear PRI 07-FEB-2003
Homo sapiens BAC clone RP11-458M1 from 4, complete sequence.
AC133529
                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Direct Submission
Submitted (29-JAN-2003) Genome Sequencing Center, Washington
University School of Medicine, 4444 Forest Park Parkway, St. Louis,
MG 63108, USA
6 (bases 1 to 179257)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Direct Submission
Submitted (03-DBC-2002) Genome Sequencing Center, Washington
University School of Medicine, 4444 Forest Park Parkway, St. Louis,
MO 63108, USA
5 (bases 1 to 179257)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Louis,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Homo sapiens
Bukaryota, Metazoa, Chordata, Craniata, Vertebrata, Buteleostomi,
Mammalia, Butheria, Primates, Catarrhini, Hominidae, Homo.
1 (bases 1 to 179257)
Sulston, T.E. and Waterston, R.
Toward a complete human genome sequence
Genome Res. 8 (11), 1097-1108 (1998)
                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Direct Submission
Submitted (13-SEP-2002) Genome Sequencing Center, Washington
University School of Medicine, 4444 Forest Park Parkway, St.
M. 63108, USA
4 (bases 1 to 179257)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   9847074
2 (bases 1 to 179257)
Wang, C., Cotton, M., Meyer, R., Haakenson, W. and Bielicki, L.
The sequence of Homo sapiens BAC clone RP11-458M1
Thoublished (2001)
3 (bases 1 to 179257)
Waterston, R.H.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Direct Submission
Submitted (07-FEB-2003) Department of Genetics, Washington
                                                                                                                                                                                                                                                                                                                                                                                    Query Match 82.4%; Score 34.6; DB 9; Length 162771; Best Local Similarity 90.2%; Pred. No. 0.17; Matches 37; Conservative 0; Mismatches 4; Indels 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    99066 AAGGAAGGAGGAGGAGGAAGGAGGAGGGAAGGAGGAA 99026
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 AAGGAAGGAGGAAAGGAAGGAGTGAAGGAAGGAGTGAA 41
                                                                / TPL family="MER2_type" 18591. 18849

18591. 18849

19591. 19610

/ TPL family="Alu" 19577. 19875

/ TPL family="MR" 19677. 19875

/ TPL family="MR" 20246. 20348

/ TPL family="Alu" 20419. 20726

/ TPL family="Alu" 20419. 20727. 20862.
/rpt_family="Alu"
18105. .18171
/rpt_family="MER2_type"
18156. .18571
                                                                                                                                                                                                                                                                                            /rpt_family="Alu"
23066. .23371
                                                                                                                                                                                                                                                                                                                                 /rpt_family="Alu"
24051. .24078
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AC133529.3 GI:28017435
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Homo sapiens (human)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      99063792
                      repeat_region
                                                                                                                                                                                                                                         repeat_region
                                                         repeat_region
                                                                                             repeat_region
                                                                                                                                repeat_region
                                                                                                                                                                  repeat_region
                                                                                                                                                                                                        repeat_region
                                                                                                                                                                                                                                                                             repeat_region
                                                                                                                                                                                                                                                                                                                 repeat_region
                                                                                                                                                                                                                                                                                                                                                      repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT 15
AC133529/c
LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AUTHORS
TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TITLE
JOURNAL
MEDLINE
PUBMED
REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AUTHORS
TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              JOURNAL
REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ઠ
```

COMMENT

```
University, 4444 Forest Park Avenue, St. Louis, Missouri 63108, USA On Jan 29, 2003 this sequence version replaced gi:26006685.
```

NOTICE: This sequence may not represent the entire insert of this clone. It may be shorter because we only sequence overlapping clone sections once, or longer because we provide a small overlap between neighboring data submissions.

This sequence was finished as follows unless otherwise noted: all regions were double stranded, sequenced with an alternate chemistry, or covered by high quality data (i.e., phred quality >= 30); an attempt was made to all sequencing problems, such as compressions and repeats, all regions were covered by sequence from more than one subclone; and the assembly was confirmed by restriction digest.

## MAPPING INFORMATION:

Mapping information for this clone was provided by Dr. John D. McPherson, Department of Genetics, Washington University, St. Louis MO. For additional information about the map position of this sequence, see http://genome.wustl.edu/gsc

## SOURCE INFORMATION:

The RPCI-11 human BAC library was made from the blood of one male donor, as described by Oscegawa, K., Woon, P.Y., Zhao, B., Frengen, E. Tateno, M., Catanese, J. J. and de Jong, P.J. (1998) An improved approach for construction of bacterial artificial chromosome libraries. Genomics 51:1-8. The clone may be obtained either from Research Genetics, Inc. (http://www.resgen.com) or Pieter de Jong and coworkers a http://www.chori.org

NEIGHBORING SEQUENCE INFORMATION: This sequence is the entire insert of the clone. Location/Qualifiers

1. .179257 FEATURES

/organism="Homo sapiens" /mol\_type="genomic DNA" /db\_xref="taxon:9606" /chromosome="4" /clone="RP11-458M1" /clone lib="RPCI-11" 89. .218 /rpt family="Alu" 225. .485 /rpt family="Alu" repeat\_region repeat\_region repeat\_region repeat\_region

/rpt\_family="(TTTC)n" 3122. .3395 /rpt\_family="MaLR" 1068. יריר /rpt\_family="Alu" 1910. .2991 /rpt\_family="Alu" 2428. .2737 repeat\_region repeat\_region repeat\_region repeat\_region repeat\_region repeat\_region /rpt\_family="MER2\_type"

/rpt\_family="Alu" 3618. .3941

repeat\_region

14144	/rpt_family="Alu" 5119	rpt_fam	10 61	18. ot fa	44376732 rrt familv="Alu"	0167106	1537309	pc_ramily= 187769	pt_tamily="ERV1 608403	pt_family="MaLR 689522	t_family=" 79841	pt_family=" 429981	rpt_family=" 98210289	$/rpt_{amily="Alu"}$	pt_family 456106	pt_famil 04011	pt_fa 154.	pt_family=7291202	pt_famil 17712	pt_famil 52812	t_family=361303	pt_family= 2341333	t_family= 411382	pt_family= 8351397	pt_family= 9981429	16315	67417083 67417083 or family-"	3601800	80081829	2921833 2921833	856418668	rpt_ramily="Li 866918977	EDC IMMILY=" 897819816	987520177	8220526 F family="	052821306 rot family="	133821547
repeat region	ָה בּיל בּיל בּיל בּיל בּיל בּיל בּיל בּיל	1651	reg	repeat_region	repeat_region	repeat_region	repeat_region	repeat_region	repeat_region				reg		red i	reg		1							repeat_region	repeat_region	repeat_region	repeat_region	repeat_region	repeat_region	repeat_region	repeat_region	repeat_region	repeat_region	repeat_region	repeat_region	repeat_region

```
ö
                                                                                                   Query Match 82.4%; Score 34.6; DB 9; Length 179257; Best Local Similarity 90.2%; Pred. No. 0.17; Matches 37; Conservative 0; Mismatches 4; Indels 0;
                                                                                                                               repeat_region
                      repeat_region
                                     repeat_region
                                                   repeat_region
                                                                 repeat_region
                                                                               repeat_region
                                                                                                                                 ö
```

Search completed: March 13, 2005, 15:49:20 Job time : 191.696 secs

. 6

AU255348 AU255348 BY59552 BY595552 W83796 mf33003.rl AA184891 mu48808.r BQ176985 UT M-DU2-AA015339 mh13b08.r CR519216 CR519216 BG090476 mac07b03. BY467369 BY467369

601753788 uw09f08.y BY527295

BB766156 BG092249 BB0756272 BB100852 BE849929 BS87209 BS87209 BS89206 BM668586 A1414767 R

UI-M-BZ1-

BB766156 mac07b03.

UI-1-CF0-

UI-E-CK1-ma59h02.x va16908.r UI-M-BZ1-

AA267559 1 BE989363 1

```
Ingolstaedter Landstr.1, D-85764 Neuherberg, Germany
This is the 5' sequence of the clone insert
Clone from S. Wiemann, Molecular Genome Analysis, German Cancer
Research Center (DKFZ); Email s.wiemann@dkfz- heidelberg.de;
sequenced by EMBL (Buropean Molecular Biology Laboratories,
Heidelberg/Germany) within the cDNA sequencing consortium of the
German Genome Project.
No SI sequence available.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 338)
Ansorge, W., Krieger, S., Regiert, T., Rittmueller, C., Schwager, B., Mewes, H.W., Weil, B., Amid, C., Osanger, A., Fobo, G., Han, M. and Wiemann, S.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    BST (Ansorge,W., Krieger,S., Regiert,T., Rittmueller,C., et al.)
Unpublished (2003)
Contact: MIPS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /clone lib="686 (synonym: hlcc3)"
/note="Vector: pTriplEx2; Site_1: SfiIA; Site_2: SfiIB;
cDNA-collection"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        No sl sequence available.
This clone (DKEzp68022193) is available at the RZPD in Berlin. Please contact the RZPD: Ressourcenzentrum, Heubnerweg 6, 14059 Berlin-Charlottenburg, GERMANY; Email: clone@rzpd.de.
                                                                                                                                                                                                                                                                                                                                                                                                                                                             DKFZp686022193_r1 686 (synonym: hlcc3) Homo sapiens CDNA clone DKFZp686022193_F', mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match 66.7%; Score 26; DB Best Local Similarity 100.0%; Pred. No. 67; Matches 26; Conservative 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                   ALIGNMENTS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /mol_type="mRNA"
/db_xref="taxon.9606"
/clone="DKPZp68602193"
/dev_stage="adult"
/lab_host="DH10B"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1. .338
/organism="Homo sapiens"
                                                                                                                                                               BB766156
BG092249
                                                                                                                                                                                              BU756272
BF100852
BE849929
BY527295
BE989206
BM668586
                                                                                                                                                                                                                                                                                                                AA267559
BE989363
                                                                                                                                BY467369
                                                                                                                 BG090476
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   BX477358.1 GI:31674556
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Homo sapiens (human)
Homo sapiens
 1198
2337
2237
2237
2237
2336
3360
3360
3360
3360
3360
401
EST
RESULT 1
BX477358
LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TITLE
JOURNAL
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ACCESSION
VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FEATURES
   ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CK831100 4054658 B
AV604210 AV604210
BK333721 BK373721
CE233012 tigr-g88-
BP700567 BP700567
BU708233 ULYM-FCO-
BZ206975 CH230-425
AI762761 WAB3ell.x
AU200748 AU200748
BU31655 BJ116536
AU200217 AU200217
BU35211 60358513
CA36073 634412 NC
EG484677 602505856
CC25590 CHZ61-124
BF773640 283016 MA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AMGNNUC:M
1M0168P17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     603473139
UI-M-BZ1-
                                                                                                              March 13, 2005, 11:56:15; Search time 127.576 Seconds (without alignments) 11636.250 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                 1 ttgaggaacaggcagactccacagccaggagaa
                 5.1.6
Compugen Ltd.
                                                                                                                                                                                                                                                                                                34239544 segs, 19032134700 residues
                                                                                                                                                                                                                                                                                                                               Total number of hits satisfying chosen parameters:
                 GenCore version
Copyright (c) 1993 - 2005
                                                                                                                                                                                                                                                                                                                                                                                                                  Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                nucleic search, using sw model
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    BX477358
AW141829
CW1828
CW1526
CC0805558
BEU34596
CK831100
AV604210
BET332012
CE232012
BPT00657
BPT00657
BWT00233
BWT00657
BWT00657
BWT06275
BWT06231
BWT06331
BWT06331
BWT06331
BWT06331
BWT06331
BWT06331
BWT06331
BWT06331
BWT06331
BWT0634
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CC255590
BF773640
CE176613
                                                                                                                                                                                                                                                IDENTITY NUC
Gapop 10.0 , Gapext 1.0
                                                                                                                                                                                                                                                                                                                                                                   seq length: 0
seq length: 2000000000
                                                                                                                                                                           US-09-617-720A-2
39
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       四四
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   99b_est1:

99b_htc::

99b_est43::

99b_est44::

95b_est6::

95b_gss1::

95b_gss1::
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query
Match Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      4443
490
507
563
752
752
703
1155
645
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     805
381
633
523
1046
766
794
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     EST: *
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
66113
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Scoring table:
                                                                                                                                                                                                   score:
                                                                                                                                                                                                                                                                                                                                                                   8 8
                                                                                  nucleic
                                                                                                                                                                                                                   Sequence:
                                                                                                                                                                                                                                                                                                    Searched:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Database
                                                                                                                                                                                                                                                                                                                                                                   Minimum I
Maximum I
                                                                                                                 Run on:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Result
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ģ
```

04-SEP-2003

Craniata, Vertebrata, Euteleostomi, Catarrhini, Hominidae, Homo.

ö

Gaps

.. 0

ö

Length 338 Indels

DB 5; 67;

AW141829.1 GI:6161680

Rattus sp.

ORGANISM ACCESSION VERSION KEYWORDS SOURCE

Rattus.

REFERENCE AUTHORS

mRNA sequence. AW141829

RESULT 2 AW141829/c LOCUS

Š 셤 Unpublished (1998)

JOURNAL

TITLE

Gene Index

```
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

El (bases 1 to 264)

SS Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C., Rolly,M., Rose,M., Rose,R., Tingey,A., von Niederhausern,A. and Wright,D.,Weiss,R.

Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts

Unpublished (2000)

Contact: Robert B. Weiss
University of Utah
University of Utah
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GSS 03-OCT-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AZ401556 264 bp DNA linear GSS 03-OCT-200 1M0168P17F Mouse 10kb plasmid UUGC1M library Mus musculus genomic clone UUGC1M0168P17 F, genomic survey sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC,
84112, USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /sex="Male"
/lab host="E. Coli strain XL10-Gold, T1-resistant, F-"
/lab host="E. Coli strain XL10-Gold, T1-resistant, F-"
/clone lib="Mouse 10kb plasmid UUGCIM library"
/note="Vector: PWD42nv; Purified genomic DNA from M.
musculus C57BL/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
                                                                                                                                                                                                                       /mol_type="mRNA"
/db_xref="taxon:10116"
/clone="mrbe3-00043-a6"
/tissue_type="bxain B15"
/clone_lib="rat brain E15 (10374)"
/note="vector: pBCB; Site_1: BstXI; Site_2: Not1; rat brain B15"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                Contact: Dan Fitzpatrick
Amgen, Inc
One Amgen Center Drive, Thousand Oaks, CA 91320-1799, USA
Tel: 805 447-481
Plate: 00043 row: a column: 6.
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            .;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   64.1%; Score 25; DB 6; Length 444; 84.8%; Pred. No. 1.6e+02; rive 0; Mismatches 5; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            366 gaacadecedaacceacadeacecedeacadaa334
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: O168 row: P column: 17
Seg primer: CGTTGTAAAACGACGCCAGT
Class: plasmid ends
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             6 GAACAGGCAGACTCCACAGCTCCCGCCAGGAGA 38

    .444
    /organism="Rattus norvegicus"

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1. .264
/organism="Mus musculus"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /mol_type="genomic DNA"
/strain="C57BL/6J"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            High quality sequence stop: 264.
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /db_xref="taxon:10090"
/clone="UUGC1M0168P17"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Mus musculus (house mouse)
Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AZ401556.1 GI:10516630 GSS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Best Local Similarity 84.8
Matches 28; Conservative
Unpublished (2003)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Tel: 801 585 5606
Fax: 801 585 7177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AZ401556
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         source
                                                                                                                                                                                       SOUTH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    JOURNAL
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 4
AZ401556
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FEATURES
                                                                                                                                                         FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TITLE
                     COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                          ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ઠ
                                                                                                                                                                                                          AM141829 424 bp mRNA linear . EST 30-OCT-1999 EST291936 Normalized rat embryo, Bento Soares Rattus sp. cDNA clone RGICI87 5' end similar to guanine nucleotide-binding protein Rar,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  EST 11-APR-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Rattus norvegicus
Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Rodentia, Sciurognathi, Muridae, Murinae,
                                                                                                                                                                                                                                                                                                                                                                                                                            Rattus sp.
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AMGNNUC: MRBE3-00043-A6-A rat brain E15 (10374) Rattus norvegicus CD745486 CD745486.1 GI:29812788
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (REST) Catalog & Rat
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Contact: Lee, NH
The Institute for Genomic Research
9712, Medical Center Drive, Rockville, MD 20850, USA
Tel: (301)-838-3529
Fax: (301)-838-9208
Email: nhlee@tigr.org
For clone availability, additional sequence and expression
information related to this EST please check the TIGR Rat Gene
information related to this EST please check the TIGR Rat Gene
contact the ATCC (http://www.atcc.org/atcc.html). To order a clone
Seq primer: M13 Reverses.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /dev_stage="embryo 8, 12, 18 dpc"
/clone_lib="Normalized rat embryo, Bento Soares"
/note="Vector: pT7T3Pac; Site_l: EcoRI; Site_2: NotI"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 (bases 1 to 424)
Lee, N.H., Glodek, A., Chandra, I., Mason, T.M., Quackenbush, J.,
Kerlavage, A.R. and Adams, M.D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   64.1%; Score 25; DB 2; Length 424; 84.8%; Pred. No. 1.6e+02; ive 0; Mismatches 5; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Rat Genome Project: Generation of a Rat EST
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 343 GAACAGGCGGAACCCACAGGTCCCGCTAGGAGA 311
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             6 GAACAGGCAGACTCCACAGCTCCCGCCAGGAGA 38
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     organism="Rattus sp."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /mol_type="mRNA"
/db_xref="taxon:10118"
/clone="RGICI87"
                           14 AGACTCCACAGCTCCCGCCAGGAGAA 39
                                                                         1 AGACTCCACAGCTCCCGCCAGGAGAA 26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Rattus norvegicus (Norway rat)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Location/Qualifiers
```

1. .424

FEATURES

Ē

Query Match Best Local Similarity 84.8° Matches 28; Conservative

DRIGIN

RESULT 3 CB745486/c LOCUS DEFINITION

ద

1 (bases 1 to 444) Amgen EST Program. Amgen Rat EST Program

REFERENCE AUTHORS TITLE

Rattus.

KEYWORDS SOURCE ORGANISM

ACCESSION VERSION

ö

ö

```
Gallus gallus (chicken)
Gallus gallus
Gallus gallus
Gallus gallus
Gallus gallus
Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Archosauria; Aves; Neognathae; Galliformes; Phasianidae;
Phasianinae; Gallus.
Phasianinae; Gallus.
Boardman, P.E., Sanz-Ezquerro, J., Overton, I.M., Burt, D.W., Bosch, E., Fong, W.T., Tickle, C., Brown, W.R.A., Wilson, S.A. and Hubbard, S.J.
A Comprehensive Collection of Chicken cDNAs
Curr. Biol. 12 (22), 1965-1969 (2002)
                                                                                                                                                                                                                                                                                                                                  BU354596 805 bp mRNA linear EST 28-NOV-2002
603473139F1 CSEQCHN70 Gallus gallus cDNA clone ChEST352n10 5', mRNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Contact: Simon Hubbard
Department of Biomolecular Sciences
University of Manchester Institute of Science and Technology (UMIST)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                         ô
                                                             Length 854;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length 805;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match 61.5%; Score 24; DB 5; Lei
Best Local Similarity 84.4%; Pred. No. 3.8e+02;
Matches 27; Conservative 0; Mismatches 5;
                                                   Score 24.8; DB 7;
Pred. No. 1.9e+02;
0; Mismatches 7;
                                                                                                                                                                                                         57 daddaccadacadaarccccadcrccrccadggga 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /organism="Gallus gallus"
/mol_type="mRNA"
/strain="White Leghorn, Hisex"
/db xref="taxon;9031"
/clone="ChEST352n10"
                                                                                                                                                          3 GAGGAACAGGCAGACTCCACAGCTCCCGCCAGGAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 TTGAGGAACAGGCAGACTCCACAGCTCCGGC 32
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               34 rrcaddarcaddcadcrccacddcrcaddcc 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Box 88, Manchester, M60 1QD, UK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Email: Simon. Hubbard@umist.ac.uk.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Location/Qualifiers
1. .805
                                                                                                                                                                                                                                                                                                                                                                                                             BU354596
BU354596.1 GI:25862597
                                                           63.6%;
80.6%;
                                                        Query Match
Best Local Similarity 80.6
Matches 29; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Tel: 01612008930
Fax: 01612360409
                                                                                                                                                                                                                                                                                                                                                                                        sednence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   12445392
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Bource
                                                                                                                                                                                                                                                                                 RESULT 6
BU354596/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ORGANISM
                                                                                                                                                                                                                                                                                                                                                         DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MEDLINE
PUBMED
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                          ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                           KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                         VERSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ORIGIN
                                                                                                                                                                                                                                                                                                                                       LOCUS
                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                             ò
(http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polymucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptored DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gal electrophoresis. Vector DNA was prepared from a derivative of pwalp4 (gql 4732114 [gbl AF125072.1), a copy number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptored mouse DNA was annealed to adaptored vector DNA, and transformed into chamically-competent B. coli Xil0-Gold (Stratagene) cells and selected for ampicillin resistance."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /clone="lawaranious"
/clone="lawaranious"
/lab host="BHIOB TonA"
/lab host="DHIOB TonA"
/lab host="DHIOB TonA"
/clone lib="NIHH MGC 256"
/note="Organ: occyte; Vector: pExpress-1; Site_1: EcoRV;
Site_2: Not1; cDNA was primed using oligo-dT primer:
5: PGACTAGATCGGAGGGGCGCC(T(125-3; and cloned into
the EcoRV/Not1 sites of pExpress-1. Size-selection >0.5 kb
resulted in an average insert size of 1.2 kb. This is a
primarylibrary (normalized primary library is NIH MGC 257)
and was constructed by Express Genomics (Frederick, MD).
Note: this is a NIH_MGC library"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          EST 06-AUG-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Contact: Daniela S. Gerhard, Ph.D.

Contact: Daniela S. Gerhard, Ph.D.

Office of Cancer Genomics
National Cancer Institute / NIH

Bldg. 31 Rml0A07 Bethead, MD 20892

Email: Gapbb-r@mail.nih.gov
Tissue Procurement: Dr. Kathleen Horner, Stanford University
cDNA Library Preparation: Express Genomics
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LiNL at:
http://image.llnl.gov
Plate: NDAM1189 row: d column: 12
High quality sequence stop: 562.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Mus musculus sukaryota, Chordata; Craniata; Vertebrata; Euteleostomi; Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Butheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. 1 (bases 1 to £54)
1 (bases 1 to £54)
1 (har-MGC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collection (MGC) Unpublished (1999)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CO805958
AGENCOURT 30259104 NIH MGC 256 Mus musculus cDNA clone
IMAGE:30935315 5', mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match 63.6%; Score 24.8; DB 8; Length 264; Best Local Similarity 80.6%; Pred. No. 1.8e+02; Matches 29; Conservative 0; Mismatches 7; Indels (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                113 GAGGACCAGACAGAATCGCCAGCTCCCTCCAGGGGA 148
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               3 GAGGAACAGGCAGACTCCACAGCTCCCGCCAGGAGA 38
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1. 854
/organism="Mus musculus"
/mol_type="mRNA"
/db_xref="taxon:10090"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mus musculus (house mouse)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CO805958.1 GI:51020184
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CO805958
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     EST
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT S
CO805958/c
LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AUTHORS
TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            VERSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                               ORIGIN
```

ઠ 유 ö

DEFINITION

RESULT 7 BE993964

ACCESSION VERSION KEYWORDS SOURCE

ORGANISM

AUTHORS TITLE

REFERENCE

MEDLINE PUBMED

COMMENT

JOURNAL

```
/tissue_transparants.
//tissue_transparants.
//dev_gatage="Lactating, Neonatal"
//dab_host="DH10B_TonA"
//dlone_lib="BARG_BBOV"
//dlone_lib="BARG_BBOV"
//dlone_lib="Organ: Intestine; Vector: pCMVSport6.1; Site_1:
Not!: Site_2: ECORI; Normalized cow cDNA intestinal
library in pCMVSport6.1, constructed from equinolar mRNA
pools derived from 5 sources, 4 lactating intestinal,
neonatal intestinal 4/5 Lactating, Proximal Duodenum,
Jejunum, Distal lleum, Colon, 1/5 Neonatal, Proximal
Duodenum, Jejunum, Distal Ileum"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AV604210 SOB taurus kidney fetus Bos taurus CDNA clone ElXI021D06
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Bovinae; Bos.
1 (Dases I to 523)
Takasuga,A., Hirotsune,S., Itoh,R., Jitohzono,A., Suzuki,H., Aso,H.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          alt '' -trim fasta. Vector identified -minmatch 12 -minscore 18
                                                                                                                                                                                           1 (bases 1 to 633)
Baumann, R.G., Baldwin, R.L., Sonstegard, T.S., Van Tassell, C.P. and
Matukumalli, L.K.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae;
                                                                                                              Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae;
Bovinae; Bos.
                                                                                                                                                                                                                                                                                                                                                                                                                                                          Fax: 3015048744
Email: rbaumann@anri.barc.usda.gov
Single pass sequencing. Bases called and trimmed with phred
0.000925 using options -trim_alt '. -trim_fasta. Vector iden
by cross match using options -minmatch 12 -minscore 18
Plate: 22 row: G column: 04
Seq primer: CCTATTTAGGTGACATATAGAC
High quality sequence stop: 633.
                                                                                                                                                                                                                                                         Construction and Analysis of a cDNA Library Generated From
Intestinal Muscle and Epithelial Tissues of Holstein Cattle
Unpublished (2004)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            61.0%; Score 23.8; DB 7; Length 633; 80.0%; Pred. No. 4.4e+02; ive 0; Mismatches 7; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                    BLDG 162: BARC-EAST, Beltsville, MD 20705, USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               455 Trigadgaacarccredcriccagaecrecerecade 421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 TTGAGGAACAGGCAGACTCCACAGCTCCCGCCAGG 35
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /organism="Bos taurus"
/mol_type="mRNA"
/strain="Holstein"
                                                                                                                                                                                                                                                                                                                                            Contact: Richard G. Baumann
Bovine Functional Genomics Lab
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 'db xref="taxon:9913"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /clone="8BOV_22G04"
/sex="Female"
                    GI:45056900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         3', mRNA sequence.
AV604210
AV604210.1 GI:9734583
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local Similarity 80.0°
Matches 28; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1. .633
                                                                     Bos taurus (cow)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Bos taurus (cow)
                                                                                                                                                                                                                                                                                                                                                                                                                                                   rel: 3015048604
                    CK831100.1
                                                                                               Bos taurus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Bos taurus
                                                                                                                                                                                                                                                                                                                                                                                                  ANRI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      EST.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DEFINITION
                                                                                            ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ACCESSION
VERSION
ACCESSION
                    VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                              REFERENCE
                                                                                                                                                                                                                                                                                                                       JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AV604210
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT 9
                                                                                                                                                                                                                                                                      TITLE
                                                                                                                                                                                                                                                                                                                                                 COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The sequence contained an oligo-dT track that was present in the coligonucleotide that was used to prime the synthesis of first coligonucleotide that was used to prime the synthesis of first strand cDNA and therefore this may represent a bonafide poly A tail. cDNA Library Preparation: M.B. Soares Lab Clone distribution: Researchers may obtain BMAP cDNA clones from RESEARCH GENETICS. It should be noted that Bento Soares is generating a small number of additional specialized non-redundant arrays of BMAP cDNAs whose availability will be considered under appropriate and limited collaborative arrangements The following repetitive elements were found in this cDNA sequence: 1-30, AT_rich#Low_complexity
                                                   BE993964
UI-M-BZ1-bjj-b-01-0-UI.81 NIH BMAP_MHIZ_S1 Mus musculus cDNA clone UI-M-BZ1-bjj-b-01-0-UI 3', mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   EST 04-MAR-2004
                                                                                                                                                                                                                                                                 Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Musinae; Mus
                                                                                                                                                                                                                                                                                                                                            Bonaldo,M.F., Lennon,G. and Soares,M.B. Normalization and subtraction: two approaches to facilitate gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CK831100 633 bp mRNA linear EST 04-N
4054658 BARC 8BOV Bos taurus cDNA clone 8BOV_22G04 5', mRNA
sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Contact: Chin, H
National Institute of Mental Health
6001 Executive Blvd. Room 7N-7190, MSC 9643, Bethesda, MD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              .;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           visit our web site at brainest.eng.uiowa.edu.
TAG_SEQ=None found"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length 381;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 23.8; DB 2; 1
Pred. No. 4.3e+02;
0; Mismatches 7;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          175 radccaggadgadriccacrecrercadada 209
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2 TGAGGAACAGGCAGACTCCACAGCTCCCGCCAGGA 36
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1. .381
/organism="Mus musculus"
                                                                                                                                                                                                                                                                                                                                                                                                                    Genome Res. 6 (9), 791-806 (1996)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /mol_type="mRNA"
/strain="C57BL/6J"
                                                                                                                                                                                                                        Mus musculus (house mouse)
                                                                                                                                                                    BE993964.1 GI:10676702
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     primer: M13 Forward
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             61.0%;
80.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Tel: 301 443 1706
Fax: 301 443 9890
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              28; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       20892-9643, USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity
                                                                                                                                                                                                                                            Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                   97044477
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8889548
```

source

FEATURES

ö

Gaps

; 0

RESULT 8 CK831100/c LOCUS DEFINITION

Matches

g

DRIGIN

```
Xenopus laevis (African clawed frog)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Email: ekirknes@tigr.org
                                                                                                                                                                                                                                                                                                                                                                                                                  genomic survey sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                      CE232012.1 GI:35387770
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      BP700567.1 GI:46048839
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Canis familiaris (dog)
Canis familiaris
                                                                                                                                           60.5%;
ilarity 76.3%;
Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Tel: 301-838-0200
Fax: 301-838-0208
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1. .656
                                                                                                                          Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local Similarity
Matches 28; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           14512627
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           EST
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                         DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT 12
BP700567
                                                                                                                                                                                                                                                                                                                                 RESULT 11
CE232012
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PUBMED
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                     ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                        VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MEDLINE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ORIGIN
                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Genoscope - Centre National de Sequencage
2 rue Gaston Cremieux, CP 5706 - 91057 EVRY cedex - FRANCE
Email: seqreséGenoscope.cns.fr, Web : www.genoscope.cns.fr, Web : sequencecope.cns.fr, Web : web : sequencecope.cns.fr, Web : not oligo (dT) primer. Five prime end enriched, double-strand cDNA was digested with Not I and cloned into the Not I and EcoR V sites of the pCMVSPORT 6 vector. Library was normalized. Library was constructed by Life Technologies, a division of Invitrogen. This sequence belongs to sequence cluster
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BX373721

BX373721 Homo sapiens PLACENTA COT 25-NORMALIZED Homo sapiens CDNA clone CSODI071YH11 3-PRIME, mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Homo sapiens
Eukaryota, Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Bukaryota; Metazoa; Chordata; Catarrhini; Hominidae; Homo.

1 (bases 1 to 1046)
11 (bases 1 to 1046)
12 (Aruber, C., Jessee, J. and Polayes, D.
Full-length CDNA libraries and normalization
Unpublished (2001)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /clone_lib="Bos taurus kidney fetus"
/note="Vector: pZL1; Site_l: Sal1; Site_2: Not1; Poly A
was deleted from a Not1 sīte"
Establishment of a high throughput EST sequencing system using poly(A) tail-removed cDNA libraries and determination of 36,000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             For more information about this cluster, see http://www.genoscope.cns.fr/cdna?s=CS0BAK063CB10NM1&c=1718.f. Location/Qualifiers
                                                                                                                        Contact: Yoshikazu Sugimoto
Animal Genetics Division
Shirakawa Institute of Animal Genetics
Odakura, Nishigo, Nishi-shirakawa, Fukushima 961-8061, Japan Tel: 81-248-25-5541
Fax: 81-248-25-5725
Email: kazusugi@cocoa.ocn.ne.jp
                                                                                                                                                                                                                                                                    Single pass sequencing.
This clone was obtained from a polyA-deleted cDNA library.
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length 523;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /mol_type="mRNA"
| Da_xref="taxon: 9606"
| /clone:"CSD01Y1Y111"
| /tissue_type="PLACENTA COT 25-NORMALIZED"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                9; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               466 readdarcedacacacrecagerecrecagecagea 503
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2 TGAGGAACAGGCAGACTCCACAGCTCCCGCCAGGAGAA 39
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 23.6; DB 1;
Pred. No. 5.2e+02;
                                                               Nucleic Acids Res. 29 (22), E108 (2001)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /organism="Homo sapiens"
                                                                                                                                                                                                                                                                                                                                                     /organism="Bos taurus"
/mol_type="mRNA"
/db_xref="taxon:9913"
/clone="ElKI021D06"
                                                                                                                                                                                                                                                                                                                                                                                                                                   /tissue_type="kidney"
/dev_stage="fetus"
/lab_host="DH10B"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   BX373721.1 GI:30438340
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      60.5%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Homo sapiens (human)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Contact: Genoscope
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              29; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local Similarity
                                                                                                         11713328
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            BX373721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LOCUS
DEFINITION
                                                             JOURNAL
MEDLINE
PUBMED
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     REFERENCE
AUTHORS
TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 10
                                                                                                                                                                                                                                                                                                              FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 BX373721
      TITLE
                                                                                                                            COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   VERSION
```

ORIGIN

ઠ g

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GSS 25-SEP-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Contact: Kirkness EF
The Institute for Genomic Research
Department of Eukaryotic Genomics, TIGR, 9712 Medical Center Drive,
Rockville, MD 20850, USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               EST 19-JUL-2004
/clone_lib="Homo sapiens PLACENTA COT 25-NORMALIZED"
/note="lst strand cDNA was primed with a Not1-cligo(dT)
primer. Five prime end enriched, double-strand cDNA was
digested with Not I and cloned into the Not I and select to the pcMvSPORT 6 vector. Library was normalized."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Carnivora; Fissipedia; Canidae; Canis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CE222012
tigr-gss-dog-17000333348863 Dog Library Canis familiaris genomic,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         BP700567 BP700567 Taira anterior neuroectoderm (ANE) pCS105 cDNA library Xenopus laevis cDNA clone XL490c06ex 5', mRNA sequence. BP700567
                                                                                                                                                                                                                                              Gарв
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 (bases 1 to 656)
Kirkness, E.F., Bafna, V., Halpern, A.L., Levy, S., Remington, K. Rusch, D.B., Delcher, A.L., Pop, M., Wang, W., Fraser, C.M. and Venter, J.C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /db_xref="taxon:9615"
/clone_lib="bog_Library"
/note="Site_l: BstXI; Libraries were prepared from
peripheral blood"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The dog genome: survey sequencing and comparative analysis
Science 301 (5641), 1898-1903 (2003)
                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                         Length 1046;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 656
                                                                                                                                                                                                                                              Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
                                                                                                                                                                                                                                                                                                                                  576 TCAAGAGCAAGGAGACTCAACTGCTCTCGCCAGTAGAA 613
                                                                                                                                                                                                                                                                                                      2 TGAGGAACAGGCAGACTCCACAGCTCCCGCCAGGAGAA 39
                                                                                                                                                                                                                                           9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        503 AGGAACATGCAGGTAGCACAGATCCAGCCAGGTGAA 538
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ch 59.5%; Score 23.2; DB 9; Similarity 77.8%; Pred. No. 7.38+02; 28; Conservative 0; Mismatches 8;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      4 AGGAACAGGCAGACTCCACAGCTCCCGCCAGGAGAA 39
                                                                                                                                                                                      Score 23.6; DB 5;
Pred. No. 5.3e+02;
0; Mismatches 9;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /organism="Canis familiaris"
/mol_type="genomic DNA"
/strain="Standard Poodle"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Class: shotgun.
Location/Qualifiers
```

```
Class: BAC ends
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             BZ206975
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Rattus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GSS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ACCESSION
VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT 14
BZ206975
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The floates 1 to 794)

In (Dases 1 to 794)

In (Date 1 to 794)

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           BUT08233 794 bp mRNA linear EST 15-JUL-2003
UI-M-FCO-caq-b-10-0-UI.rl NIH BMAP_FCO Mus musculus cDNA clone
IMAGE:6415785 5', mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mus musculus
Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Musinae; Mus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                This clone was contributed by the Brain Molecular Anatomy Project (BMAP)
                                Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Amphibia, Batrachia, Anura, Mesobatrachia, Pipoidea, Pipidae,
                                                                                                                                1 (bases 1 to 766)
Osada,S., Kitayama,A., Ueno,N. and Taira,M.
Expression analysis of genes which are expressed in the anterior
                                                                                                                                                                                                                                                                                                        Contact: Masanori Taira
Department of Biological Sciences
Graduate School of Science, University of Tokyo, CREST, Japan
Graduate School of Science, University of Tokyo, CREST, Japan
7-3-1 Hongo, Bunkyo-ku, Tokyo 113-0033, Japan
Tel: 81-03-5841-4434
Fax: 81-03-5841-4434
Email: m_taira@biols.u-tokyo.ac.jp,
URL:http://www.shigen.nig.ac.jp/nbrp/xenopus/est/.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /mol_type="mRNA"
/mol_type="mRNA"
/db xref="texxon:8355"
/clone="XL490c06ex"
/tissue_type="anterior neuroectoderm"
/dev stage="late gastrula (stage 12.5)"
/clone_lb="Goada Taira anterior neuroectoderm (ANE)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match 59.5%; Score 23.2; DB 5; Length 766; Best Local Similarity 77.8%; Pred. No. 7.4e+02; Matches 28; Conservative 0; Mismatches 8; Indels (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       439 AGGAACAGGAAGACTGAACAGCTCACATCAGAGGAA 474
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        4 AGGAACAGGCAGACTCCACAGCTCCCGCCAGGAGAA 39
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /organism="Xenopus laevis"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1. 794
/organism="Mus musculus"
/orl_type="mRNA"
/strain="C57BL/6"
/db_xref="taxon:10090"
                                                                                                                                                                                                                                             neuroectoderm of Xenopus embryos
Unpublished (2004)
                                                                                                      Xenopodinae; Xenopus; Xenopus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       cocation/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     BU708233.1 GI:23640494
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Seq primer: pYX-5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     KEYWORDS
SOURCE
ORGANISM
ORGANISM
                                                                                                                                   REFERENCE
AUTHORS
TITLE
                                                                                                                                                                                                                                                                           JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ACCESSION
VERSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TITLE
JOURNAL
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     BU708233
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ORIGIN
```

g

```
Shartus.

Shartus.

Shartus.

Sharty,J., Shatsman,S., Tsegaye,G., Geer,K.,

Sharty,J., Gebregeorgis,E., Overton,L., Russell,D., Chen,D.,

Riggs,F., de Jong,P. and Fraser,C.M.

Rat BAC End Sequences from Library CHORI-230 MboI segment

AL Unpublished (1999)

Other GSSs: CH230-42508.TV

Contact: Shaying Zhao

Department of Eukaryotic Genomics

The Institute for Genomic Research

9712 Medical Center Dr., Rockville, MD 20850, USA

Tel: 301 838 0200

Fax: 301 838 0200

Fax: 301 838 0200

Ratistuce for Genomic Research

Fol: 302 Babilisty Deage Contact Pieter de Jong (pdejong@mail.cho.org).

Clones may be purchased from BACPAC Resources

(http://www.chori.org/Dacpac/or ering information.htm). BAC end

page: http://www.tigr.org/tdb/bac_ends/rat/bac_end_intro.html

Plate: 425 row: O column: 8

Seg primer: SP6
/clone="IMAGE:6415785"
/tissue_type="whole brain"
/dev stage="embryo 12.5 dpc"
/lab_host="labt0B Til phage resistant)"
/clone lib="NIH EMAP FC0"
/clone lib="Nih Synthesis was primed with an oligo-dT primer containing a Not I site. Double stranded containing a Not I site and then clone directionally into pYx-Asc vector. The library tag sequence located between the Not I site and the poly at ail, is TGAGAGAGCC. This library was created for the University of Iowa Mouse Brain Molecular Amatomy Project (BMAP): 'Gene Discovery in the Developing Mouse Nervous System', supported by National Institutues of Mental Health (NIMH), Hemin Chin, Ph.D., program coordinator."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         BZ206975
CH230-42508.TJ CHORI-230 Segment 2 Rattus norvegicus genomic clone
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Rattus norvegicus
Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Rodentia, Sciurognathi, Muridae, Murinae,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length 794;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        9; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            695 TGGAAAAGAGGCACACTCTCNGCGCCCGCCTGGAGA 731
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2 TGAGGAACAGGCAGACTCCACAGCTCCCGCCAGGAGA 38
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           y Match 59.5%; Score 23.2; DB 5; Local Similarity 75.7%; Pred. No. 7.4e+02; nes 28; Conservative 0; Mismatches 9;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   organism="Rattus norvegicus"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /mol_type="genomic DNA"
/strain="BN/SsNHsd/MCW"
/db xref="taxon:10116"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Rattus norvegicus (Norway rat)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          BZ206975.1 GI:23865027
```

```
셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

1 (bases 1 to 490)

S NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.

National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index

L Unpublished (1997)

L Contact: Robert Strausberg, Ph.D.
Email: Gapbb-r*mail.nih.gov

Tissue Procurement: Ash Alizadeh, John Byrd, M.D., Mike Grever,
M.D., Louis M. Staudt, M.D., Ph.D.
cDNA Library Preparation: M. Bento Soares, Ph.D.
cDNA Library Preparation: M. Bento Soares, Ph.D.
cDNA Library Preparation: M. Bento Soares, Ph.D.
cDNA Library Arrayed by: Greg Lennon, Ph.D.
Clone distribution: NCI-CGAP clone distribution information can be found through the I.M.A.G.E. Consortium/LINL at:
www-bio.llnl.gov/bbrp/image/image.html
Insert Length: 1107 Std Error: 0.00
Seq primer: -40UP from Gibco

Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /organism="Homo sapiens"
/wol_type="mRNA"
/wol_type="mRNA"
/db_xref="taxon:9606"
/clone="MAGE:23872"
/tissue_type="B-cell, chronic lymphotic leukemia"
/tissue_type="Taxonic library library library is normalized, and was constructed by Bento
Soares and M.Fatima Bonaldo."
                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AI762761 490 bp mRNA linear EST 20-DEC-1999
whg3ell.xl NCI_CGAP_CLL1 Homo saplens cDNA clone IMAGE:2387372 3',
                                                    /cell_type="Brain"
/clone_lib="CHORI-230 Segment 2"
/note="Vector: pTARBAC1.3; Site_1: MboI; Site_2: MboI;
CHORI-230 Rat (BN/SBNH8d/MCW) BAC library produced by Pieter de Jong"
                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                      Length 443;
                                                                                                                                                                                                                                                Query Match 59.0%; Score 23; DB 8; Length 443
Best Local Similarity 74.4%; Pred. No. 8.4e+02;
Matches 29; Conservative 0; Mismatches 10; Indels
                                                                                                                                                                                                                                                                                                                                                                 1 TTGAGGAACAGGCAGACTCCACAGCTCCCGCCAGGAGAA 39
                                                                                                                                                                                                                                                                                                                                                                                                                     22 TAGAGGGACAGGCAAACCCAAAAGCCCCAGTCAGGGGAA 60
/clone="CH230-42508"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AI762761.1 GI:5178428
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Homo sapiens (human)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1. .490
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       mRNA sequence.
AI762761
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 15
AI762761/c
LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          REFERENCE
AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COMMENT
                                                                                                                                                                                            ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ORIGIN
                                                                                                                                                                                                                                                                                                                                                                   õ
                                                                                                                                                                                                                                                                                                                                                                                                                     a
```

```
278 GAGCAACAGGAAATTCCACAGCTGCCTCCAGAA 245
```

Search completed: March 13, 2005, 18:13:56 Job time : 142.576 secs

Query Match

SB.5%; Score 22.8; DB 1; Length 490;
Best Local Similarity 79.4%; Pred. No. 1e+03;
Matches 27; Conservative 0; Mismatches 7; Indels

ö

Gaps

ö

3 GAGGAACAGGCAGACTCCACAGCTCCCGCCAGGA 36

≿

nis Page Blank (uspto)

OM nucleic

Run on:

Sequence:

Searched:

Database

```
AF23337 Mus muscu
AL506971 Mouse DNA
AC024441 Human DNA
AC024441 Homo sapi
AC019591 Homo sapi
AC018274 Homo sapi
AC08755 Homo sapi
AC08755 Homo sapi
AC08755 Homo sapi
AC08755 Homo sapi
AC0731689 Mus muscu
BC073168 Pan trog1
BS000632 Pan trog1
BS000632 Pan trog1
BS000632 Pan trog1
AC102558 Mus muscu
AC132765 Rattus no
AC13276 Rattus no
AC132742 Rattus no
AC132742 Rattus no
AC132742 Rattus no
AC132742 Caenorhabdi
AC015395 Drosophil
AC150031 Dasypus n
AC023600 Drosophil
AC16079 Rattus no
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           HSA242737 2613 bp mRNA linear PRI 18-APR-2002
Homo sapiens mRNA for interleukin-1-like protein-1 (ILIL1 gene),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PAT 22-FEB-2001
 Homo sapi
Rattus no
Rattus no
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length 39;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            39
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 TTGAGGAACAGGCAGACTCCACAGCTCCCGCCAGGAGAA 39
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               100.0%; Score 39; DB 6; L
100.0%; Pred. No. 0.00058;
ive 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TTGAGGAACAGGCAGACTCCACAGCTCCGGCCAGGAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AJ242737.
AJ242737.1 GI:6165333
ILLII gene; interleukin-1-like protein-1.
Homo sapiens (human)
Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The il-ill gene and polypeptide products Patent: WO 0105974-A 2 25-JAN-2001; Interleukin Genetics, Inc. (US) Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1. .39
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"
                                                                                                                                                                                                                                                                                                                                                                                                                                                 ALIGNMENTS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AX080390 39 bp
Sequence 2 from Patent WO0105974.
AX080390 GI:13159841
                               AC127185
AF233337
AL606971
AL359914
                                                                                                                                                           AC008755
AC131689
BC073106
AC146478
                                                                                                                                                                                                                                                                                                                                                                    AC004617
                                                                                                                                                                                                                                         1S463A9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Nicklin, M. and Barton, J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Homo sapiens (human)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local Similarity 100.0
Matches 39; Conservative
65.1 90147
63.6 19147
63.6 125495
61.0 171456
61.0 171456
61.0 171456
61.0 171456
61.0 171456
61.0 171456
61.0 171456
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203912
61.0 203
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           transcript 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Homo sapiens
 VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT 1
AX080390
LOCUS
DEFINITION
ACCESSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RESULT 2
HSA242737
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FEATURES
   ORIGIN
                                                                                                           March 13, 2005, 11:14:57 ; Search time 172.432 Seconds
   (without alignments)
   10959.418 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Homo sapi
Homo sapi
A novel i
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Homo sapi
A novel i
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence
Sequence
Homo sapi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Homo sapi
Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence
Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AX080390 Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Description
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AJ242737 H
AZ262010 S
AZ28010 S
AF186094 H
BD211436 A
AR21130 S
AR269310 S
AX069310 S
AZ21633 H
BD211437 A
BD211437 A
AR21639 H
BD211437 A
AR221631 S
AR222131 S
AR222131 S
AR222131 S
AR222131 S
AR222131 S
                                                                                                                                                                                                                                                                                                                      9416466
                                                                                                                                                                                                          1 ttgaggaacaggcagactccacagctcccgccaggagaa 39
                GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
                                                                                                                                                                                                                                                                                       4708233 segs, 24227607955 residues
                                                                                                                                                                                                                                                                                                                      Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                              nucleic search, using sw model
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AX069310
AX080431
HSA271338
AF216693
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AX080390
HSA242737
AX080406
CQ722801
AF186094
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               BD211436
AR181996
AR221130
AR302958
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        BD211437
AR181997
AR221131
AR302959
AX069311
AC016724
                                                                                                                                                                                                                                        IDENTITY_NUC
Gapop 10.0 , Gapext 1.0
                                                                                                                                                                                                                                                                                                                                                    Minimum DB seq length: 0
Maximum DB seq length: 200000000
                                                                                                                                                                        US-09-617-720A-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length DB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               gb htg: *
gb htg: *
gb ow: *
gb pow: *
gb pl: *
gb pl: *
gb ro: *
gb ro: *
gb ro: *
gb vw: *
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GenEmbl:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query
Match 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              100.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Title:
Perfect score:
                                                                                                                                                                                                                                         Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score
```

ö

Result Š ö

Gaps

; 0

54;

PAT 03-FEB-2004

```
AF186094 2720 bp mRNA linear PRI 16-OCT-1999
Homo sapiens interleukin-1 receptor antagonist homolog (IL1HY1)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Venter, C.J., Adams, M.C., Li, P.W. and Myers, E.W.
Kits, such as nucleic acid arrays, comprising a majority of
humanexons or transcripts, for detecting expression and other uses
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Eukaryotti, Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. I (bases I to 2720)
Mulero, J.G., Pace, A.M., Nelken, S.T., Loeb, D.B., Correa, T.R., Drmanac, R. and Pord, J.B.
                                                                                                                                                                                                                                                                                                                                                                                                                           Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mulero, J.J., Pace, A.M., Nelken, S.T., Loeb, D.B., Correa, T.R., Dramanac, R. and Pord, J.E.

Direct Submission
Submitted (13-SEP-1999) Functional Genomics, HYSEQ Inc., 670
Almanor Ave., Sunnyvale, CA 94086, USA
1. .2720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ILIHYI: A novel interleukin-1 receptor antagonist gene
Biochem. Biophys. Res. Commun. 263 (3), 702-706 (1999)
99443727
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 2701;
                                                                                                                                                                                                                                                                                    linear
                                                                                                 Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Indels
                                                             Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         82 TGGAGGAACAGGCAGACTCCCACAGCTCCCGCCAGGAGAA 120
                                                                                                                                           39
                                                                                                                                                                                 40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      39
                                                                                                                                                                2 TGGAGGAACAGGCAGACTCCACACGCCCGCCAGGAGAA
                                                                                                                                           1 TTGAGGAACAGGCAGACTCCACAGCTCCCGCCAGGAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1 TTGAGGAACAGGCAGACTCCACAGCTCCCGCCAGGAGAA
                                                           DB 6;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DB 6;
                                                         Score 37.4; DB 6;
Pred. No. 0.0022;
0; Mismatches 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 37.4; DB 6;
Pred. No. 0.0011;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Patent: WO 02068579-A 8735 06-SEP-2002;
PE Corporation (NY) (US)
Location/Qualifiers
                                                                                                                                                                                                                                                                                  CQ722801 2701 bp DNA Sequence 8735 from Patent WO02068579.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
95.9%; Score 37.4; D
Best Local Similarity 97.4%; Pred. No. 0.00
Matches 38; Conservative 0; Mismatches

    2701
    /organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

  /db xref="taxon:9606"
                                                                                                                                                                                                                                                                                                                          CQ722801
CQ722801.1 GI:42283658
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          mRNA, complete cds.
AF186094
AF186094.1 GI:6049804
                                                         Query Match
Best Local Similarity 97.4%;
Matches 38; Conservative
                                                                                                                                                                                                                                                                                                                                                                                     Homo sapiens (human)
Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Homo sapiens (human)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0512743
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      thereof
                                                                                                                                                                                                                                                                                                                                                                                   SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DEFINITION
                                                                                                                                                                                                                                                                                                     DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                          ACCESSION
VERSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    REFERENCE
AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MEDLINE
                                                                                                                                                                                                                                          RESULT 4
CQ722801
LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PUBMED
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                  KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AF186094
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              VERSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ORIGIN
                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /product="interleukin-1-like protein-1"
/protein id="CAB59822.1"
/brotein id="CAB59822.1"
/brotein id="CAB59822.1"
/brotein id="Interleukin-1-like protein-1"
/db xref="CAG-QUBH0"
/db xref="CAG-QUBH0"
/db xref="CAG-QUBH0"
/db xref="CAG-GAG-CARMCABALCY-LINNQLLAGGLHAGKVIKGEEISV
VFTABABITOH="WTLSGALCPRARGABALCH-LEVNIMELY-LAKESKSFTFVR
RDMGLTSSFESAAYFGWFLCTVPEADQPVRLTQLPENGGWNAPITDFYFQQCD"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PAT 22-FEB-2001
                                                      Barton,J.L., Herbst,R., Bosisio,D., Higgins,L. and Nicklin,M.J. A tissue specific IL-1 receptor antagonist homolog from the IL-1 cluster lacks IL-1, IL-1ra, IL-18 and IL-18 antagonist activities Eur. J. Immunol. 30 (11), 3299-3308 (2000)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.
Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.
                                                                                                                                                                                                                 Paramitted (09-JUN-1999) Nicklin M.J., Division of Molecular and Submitted (09-JUN-1999) Nicklin M.J., Division of Molecular and Genetic Medicine, University of Sheffield, Royal Hallamshire Hospital, Glossop Road, Sheffield, S10 2JF, UNITED KINGDOM Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length 2613;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 TTGAGGAACAGGCAGACTCCACAGCTCCCGCCAGGAGAA 39
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1 rrdaggaacaggcagacrccacagcrcccccaggagaa 39
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    100.0%; Score 39; DB 9; I
100.0%; Pred. No. 0.00026;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Nicklin,M. and Barton,J.
The il-111 gene and polypeptide products
Patent: WO 0105974-A 18 25-JAN-2001;
Interleukin Genetics, Inc. (US)
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                 /tissue_type="placenta"
/note="between IL1B and IL1RN"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         'function="putative cytokine"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0; Mismatches

    .54
    /organism="Homo sapiens"
    /mol_type="unassigned DNA"

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AX080406 54 bp
Sequence 18 from Patent W00105974.
AX080406
                                                                                                                                                                                                                                                                                                                                             /organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/chromosome="2"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /citation=[1]
/evidence=experimental
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /codon_start=1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AX080406.1 GI:13159848
                                                                                                                                                                                                                                                                                                                                                                                                                                /map="2q12-13"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /gene="IL1L1"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    gene="IL1L1"
                                                                                                                                                                                 2 (bases 1 to 2613)
Nicklin, M.J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Homo sapiens (human)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            39; Conservative
                                                                                                                                                                                                                                                                                                                          1, .2613
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     82. .549
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           .2613
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Similarity
                                                                                                                                                              11093146
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               polyA_site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT 3
AX080406
LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                 source
                                          REFERENCE
AUTHORS
TITLE
                                                                                                                        JOURNAL
                                                                                                                                                                                   REFERENCE
AUTHORS
                                                                                                                                                                                                                         TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ACCESSION
VERSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Matches
                                                                                                                                                                PUBMED
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FEATURES
                                                                                                                                                                                                                                                                                                           FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
```

ö

Gaps

·,

```
PAT 20-APR-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PAT 26-SEP-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PAT 12-JUN-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                    1 (bases 1 to 5751)
Ford,J. and Pace,A.
Interleukin-1 receptor antagonist and recombinant production
                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                      Length 5751;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length 5751;
                                                                                  linear
                                                                                                                                                                                                                                                                                                                                                                                                                                       Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Indels
   813 TGGAGGAACAGGCAGACTCCACAGCTCCCGCCAGGAGAA 851
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 (bases 1 to 5751)
Ford,J. and Pace,A.
Assays involving an IL-1 receptor antagonist
Patent: US 6456191-A 7 30-JUL-2002;
Location/Qualifiers
1. 5751
/organism="unknown"
/mol_type="genomic DNA"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             851
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 TTGAGGAACAGGCAGACTCCACAGCTCCCGCCAGGAGAA 39
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              39
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             813 TGGAGGAACAGGCAGACTCCACACGCCCCGCCAGGAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                813 TGGAGGAACAGGCAGACTCCACAGGTCCCGCCAGGAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 TTGAGGAACAGGCAGACTCCACAGCTCCCGCCAGGAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             95.9%; Score 37.4; DB 6; 97.4%; Pred. No. 0.00092; ive 0; Mismatches 1;
                                                                                                                                                                                                                                                                                                                                                                                                     Score 37.4; DB 6;
Pred. No. 0.00092;
0; Mismatches 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DNA
                                                                                                                                                                                                                                                                                  Patent: US 6337072-A 7 08-JAN-2002;
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                  /mol_type="unassigned DNA"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   5751 bp
Sequence 7 from patent US 6426191.
AR221130.1 GI:23328015
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 7 from patent US 6541623.
AR302958
                                                                             Sequence 7 from patent US 6337072.
                                                                                                                                                                                                                                                                                                                   1. .5751
/organism="unknown"
                                                                                                                                   AR181996.1 GI:20224912
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GI:31691558
                                                                                                                                                                                                                                                                                                                                                                                                        95.9%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Unclassified.
1 (bases 1 to 5751)
                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local Similarity 97.41
Best Local Similarity 97.41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local Similarity 97.44
Matches 38; Conservative
                                                                                                                                                                                                     Unclassified.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Unclassified.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AR302958.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Unknown.
                                                                                                                                                                     Unknown.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Unknown.
                                                                                                                                                                                                                                                                     thereof
                                                                                                                                                                                       Unknown
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Unknown
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Unknown
                                                                                                                                                                                                                                                                                                                        source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DEFINITION
ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DEFINITION
                                                                                                    DEFINITION
                                                                                                                                                                                   ORGANISM
                                                                                                                  ACCESSION
VERSION
KEYWORDS
                                                                                                                                                                                                                    REFERENCE
AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            JOURNAL
                                                  RESULT 7
AR181996
LOCUS
                                                                                                                                                                                                                                                                                  JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 8
AR221130
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 9
AR302958
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  KEYWORDS
                                                                                                                                                                                                                                                                                                     FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 VERSION
                                                                                                                                                                     SOURCE
                                                                                                                                                                                                                                                                                                                                                                       ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ORIGIN
   요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       쉱
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                              /note="IL-1ra homolog"
/codon start=1
/product="interleukin-1 receptor antagonist homolog"
/protein_id="AAP02757.1"
/db_xref="G1:6049805"
/translation="WULGABLCFPRKDSALKVLYLHNNQLLAGGLHAGKVIKGEEISV
/PRRALDASLSPVILGAQGGSQCLSCGVGQEPTLTLEPVNIMBLYLGAKESKSFTFYR
RDMGLTSSFESAAXPGWFLCTVPEADQPVRLTQLPENGGWNAPITDFYFQQCD"
                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        5 5751 bp DNA linear PAT 17-JUL-2003 interleukin-1 receptor antagonist and uses thereof.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A13/02,C12N5/00
A61K37/02,C12N5/00
A novel interleukin-1 receptor antagonist and uses thereof FH
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CIZN1/19,
CIZN1/21,C12N5/10,C12Q1/68,G01N33/50,G01N33/566,G01N33/68, PC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.
1 (Bases 1 to 5751)
Ford, J. and Pace, A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PF 05-APR-1999 JP 2000542457

R 03-APR-1998 US 09/059010,15-MAY-1998 US 09/079909 PR

20-MAY-1998 US 09/082364,19-UNN-1998 US 09/099818 PR

31-JUL-1998 US 09/127698,13-JAN-1999 US 09/229591 PR

17-FEB-1999 US 09/21370

PI JOHN FORD, ANN PACE

PC CI2N15/09,A61K38/00,C07K14/545,C07K14/545,C07K16/24,C12N1/15,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   A novel interleukin-1 receptor antagonist and uses thereof
Patent: JP 2002510492-A 5 09-APR-2002;
HYSEQ INC
                                                                                                                                                                                                                                                                                                                     ..
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                  Length 2720;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length 5751;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /organism='Homo sapiens (human)'.
Location/Qualifiers
                                                                                                                                                                                                                                                                                  Query Match
95.9%; Score 37.4; DB 9; Length 2.
Best Local Similarity 97.4%; Pred. No. 0.0011;
Matches 38; Conservative 0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1; Indels
                                                                                                                                                                                                                                                                                                                                                                                     83 recadedadedecededecrecacedecedecededada 121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    33
                                                                                                                                                                                                                                                                                                                                                    1 TTGAGGAACAGGCAGACTCCACAGCTCCCGCCAGGAGAA 39
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 TTGAGGAACAGGCAGACTCCACAGCTCCCGCCAGGAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
95.9%; Score 37.4; DB 6;
Best Local Similarity 97.4%; Pred. No. 0.00092;
Matches 38; Conservative 0; Mismatches 1;
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
1. .2720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1. .5751
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Homo sapiens (human)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     BD211436.1 GI:33021206
JP 2002510492-A/5.
Homo sapiens (human)
Homo sapiens
                                                                 'gene="IL1HY1"
                                                                                 163. .630
/gene="IL1HY1"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       JP 2002510492-A/5
09-APR-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A novel ir
BD211436
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          BD211436
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            C12N15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TITLE
JOURNAL
                                                     gene
                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT 6
BD211436
LOCUS
                                                                                  CDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COMMENT
                                                                                                                                                                                                                                                   ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ORIGIN
```

ઠે 셤 ö

ö

ö

à 셤

```
HSA271338 6540 bp DNA linear PRI 18-APR-2002
Homo sapiens ILIL1 gene for interleukin-1 like protein 1, exons
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Direct Submission
Submitted (17-3NN-2000) Nicklin M.J.H., Division of Molecular and Genetic Medicine, University of Sheffield, Royal Hallamshire Hospital, Sheffield, South Yorkshire, UNITED KINGDOM Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                        Barton,J.L., Herbst,R., Bosisio,D., Higgins,L. and Nicklin,M.J.
A tissue specific IL-1 receptor antagonist homolog from the IL-1
cluster lacks IL-1, IL-1ra, IL-18 and IL-18 antagonist activities
Eur. J. Immunol. 30 (11), 3299-3308 (2000)
                                                                                                                                                                                                                                                                                                                                                      Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      .1022,1193. .1248,2631. .2716,3905. .4032,
                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 join(<451. ;524,1193. .1248,2631. .2716,3905. .4032,
4234. .6522)
/gene="ILILI"
Query Match 95.9%; Score 37.4; DB 6; Length 6540;
Best Local Similarity 97.4%; Pred. No. 0.0009;
Matches 38; Conservative 0; Mismatches 1; Indels 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /note="unnamed protein product; uORF"

/codon statt=1

/protein id="CAB67703.1"

/db_xref="G1:675587"

/db_xref="Uniprot/TrEMBL:09NY32"

/translation="MAGRKDRGRKEGEGKE"
                                                                                              970 TGGAGGAACAGGCAGACTCCACAGCTCCCGCCAGGAGAA 1008
                                                                           1 TTGAGGAACAGGCAGACTCCACAGCTCCCGCCAGGAGAA 39
                                                                                                                                                                                                                                                            AJ271338
AJ271338.1 GI:6729586
ILLIJ gene; interleukin-1 like protein 1.
Homo sapiens (human)
Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1. .6540
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               note="alternative"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /map="2q13"
/clone="PAC 131J6"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 chromosome="2"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /number=2
1023. .1192
/gene="IL1L1"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             <451. .524
/gene="IL1L1"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       57. .507
gene="IL1L1"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    525. .968
/gene="IL1L1"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     451. .6522
/gene="IL1L1"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 969. .1022
/gene="IL1L1"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1193. .1248
/gene="IL1L1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2 (bases 1 to 6540)
Nicklin, M.J.H.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           oin(<969.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             number=2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        number=1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    number=1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Eur. J. I
20545212
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           11093146
                                                                                                                                                                                                                                                                                 VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       intron
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         intron
                                                                                                                                                                                                                           DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               exon
                                                                                                                                                                                                                                                                                                                                                                                           REFERENCE
AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TITLE
JOURNAL
                                                                                                                                                                       RESULT 12
HSA271338
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MEDLINE
PUBMED
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         mRNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 exon
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           mRNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     exon
                                                                                                                                                                                                                                                                ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SCO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FEATURES
                                                                                δ
                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                              PAT 25-JAN-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PAT 22-FEB-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Eukaryota; Metazoa; Chordata; Craniatà; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Butheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                              ö
                                                                                                                                                                     Query Match 95.9%; Score 37.4; DB 6; Length 5751; Best Local Similarity 97.4%; Pred. No. 0.00092; Matches 38; Conservative 0; Mismatches 1; Indels 0.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 5751;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A interleukin-1 receptor antagonist and uses thereof
Patent: WO 0102571-A 7 11-JAN-2001;
HYSEQ, INC. (US)
 Ford,J., Ho,A.S.Y. and Pace,A.
Interleukin--1 receptor antagonist and uses thereof
Patent: US 6541623-A 7 01-APR-2003;
Location/Qualifiers
1. .5751
/organism="unknown"
/mol_type="genomic DNA"
                                                                                                                                                                                                                                                                                                                                                                               linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    813 TGGAGGAACAGGCAGACTCCACAGCTCCCGCCAGGAGAA 851
                                                                                                                                                                                                                                                                     1 TTGAGGAACAGGCAGACTCCACAGCTCCCGCCAGGAGAA 39
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1 TTGAGGAACAGGCAGACTCCACAGCTCCCGCCAGGAGAA 39
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match 95.9%; Score 37.4; DB 6; Best Local Similarity 97.4%; Pred. No. 0.00092; Matches 38; Conservative 0; Mismatches 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Nicklin,M. and Barton,J.
The il-111 gene and polypeptide products
Patent: WO 0105974-A 43 25-JAN-2001;
Interleukin Genetics, Inc. (US)
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DNA
                                                                                                                                                                                                                                                                                                                                                                               DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1. .5751
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1. .6540
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AX080431 6540 bp
Sequence 43 from Patent W00105974.
AX080431
                                                                                                                                                                                                                                                                                                                                                                AX069310 5751 bp
Sequence 7 from Patent WO0102571.
AX069310
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                   AX069310.1 GI:12579182
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AX080431.1 GI:13159871
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Homo sapiens (human)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Homo sapiens (human)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Ford, J. and Pace, A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AX080431
LOCUS
DEFINITION
ACCESSION
VERYORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 source
                                                                                    source
                                                                                                                                                                                                                                                                                                                                                                                               DEFINITION
ACCESSION
VERSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ORGANISM
                          TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                           RESULT 10
AX069310
LOCUS
           AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RESULT 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                     KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FEATURES
                                                                   FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ORIGIN
                                                                                                                                        ORIGIN
```

```
/hote="splice variant 1"
join(2088. .2116,3504. .3589,4777. .4904,5106. .5330)
join(2088. .2116,3504. .3589,4777. .4904,5106. .5330)
/gene="ILIHY1"
/codon_start=1
/product="interleukin-1 receptor antagonist homolog 1"
/protein_id="AAF76981.1"
/db_xref="G1:8972055"
/translation="WVLSGALCFRWEDSALKVLYLHNWQLLAGGEHAGKVIKGEEISV
VPNRWLDASLSPVILGVQGGSQCLSCGVGQEFTLTLEPVNIMELYLGAKESKSFTFYR
RDMGLTSSFESAAYPGWFLCTVPEADQPVRLTQLPENGGWNAPITDFYFQQCD"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   A novel interleukin-1 receptor antagonist and uses thereof.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DS Homo sapiens (human)

PN JP 2002510492-A/6

PD 09-APR-2002

PF 05-APR-1999 JD 2000542457

PR 03-APR-1999 US 09/055010,15-MAY-1998 US 09/079909 PR

20-MAY-1998 US 09/08264,19-JUN-1998 US 09/09918 PR

31-JUL-1999 US 09/127688,13-JAN-1999 US 09/229591 PR

17-FEB-1999 US 09/127688,13-JAN-1999 US 09/229591 PR

PC C12N15/99 AG1K38/00,C07K14/52,C07K14/545,C07K16/24,C12N1/15,

PC C12N1/19,

PC C12N1/21,C12N5/10,C12Q1/68,G01N33/50,G01N33/56,G01N33/58, PC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi, Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.

(bases 1 to 7605)

Ford, J. and Pace, A.

A novel interleukin-1 receptor antagonist and uses thereof Patent: JP 2002510492-A 6 09-APR-2002;
                                                                                                                                                                             /product="interleukin-1 receptor antagonist homolog 1"
/note="splice variant 2"
join(1857. 1890,2061. .2116,3504. .3589,4777. .4904,
5106. .7394)
/gene="illHY1"
/product="interleukin-1 receptor antagonist homolog 1"
                                                                                   join(1306. .1383,2061. .2116,3504. .3589,477. .4904,
3106. .7394)
gene="ILIHX1"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /organism='Homo sapiens (human)'.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match 95.9%; Score 37.4; DB 9; Length 7604; Best Local Similarity 97.4%; Pred. No. 0.00087; Matches 38; Conservative 0; Mismatches 1; Indels 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1838 regadegaacagacrecacagerecesesagaaa 1876
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 TTGAGGAACAGGCAGACTCCACAGCTCCCGCCAGGAGAA 39
clone_lib="CITB BAC39316"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1. .7605
/organism="Homo sapiens"
/mol type="genomic DNA"
/db xref="taxon:9606"
                            .306. .7394
/gene="IL1HY1"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       BD211437.1 GI:33021207
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    JP 2002510492-A/6.
Homo sapiens (human)
Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      C12N15/00,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DEFINITION
ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 14
BD211437
LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TITLE
JOURNAL
                                                                                          mRNA
                                gene
                                                                                                                                                                                                                                                 mRNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                         SCO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         원
                                                                                                             /codon_start=1
/product="interleukin-1 like protein 1"
/product="interleukin-1 like protein 1"
/protein_id="CAB67704.1"
/db_xref="G16,029588"
/db_xref="UniProt/Swiss-Prot:Q9UBHO"
/tanslation="WVLSGALCFRMKDSALKVLYLHNNQLLAGGLHAGKVIKGEEISV
VPNRWLDASLSPVLIGVQGGSQCLSCCVGQEPTLILEPVNIMELYLGAKESKSFTFYR
RDMGLTSSFESAAYFGWFLCTVVPEADQPVRLTQLPENGGWNAPITDFYFQQCD"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2 (bases 1 to 7604)
Mulero,J.J., Nelken,S.T. and Ford,J.E.
Direct Submission
Submitted (15-DEC-1999) Functional Genomics, HYSEQ Inc, 670 Almanor
Ave., Sunnyvale, CA 94086, USA
Location/Qualifiers
1. 7664
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            אסט איזרי PRI 19-JUN-2000 אווהפאר 19-JUN-2000 אווהפאר 19-JUN-2000 אווהפאר 19-JUN-2000 אווהפאר 19-JUN-2000 אווהאטווי באימיביביר 19-JUN-2000 אוואטווי באימיביביר קראנוצון ומפוזה באימיביביר מואטווי אוואטווי באימיביביר מואטווי אוואטווי באימיביביר מואטווי אוואס איזרי באימיביביר מואס איזרי באימיביביר מואס איזרי באימיביביר מואס מואס איזרי באימיביביר באימיביביר מואס איזרי באימיביביר באימיביביר באימיביביר באימיביביר באימיביביר באימיביביר באימיביביר באימיביביר באימיביביר באימיביר באימיביר
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi, Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo. 1 (bases 1 to 7604)
Mulero, J.J., Nelken, S.T. and Ford, J.E.
Organization of the human interleukin-1 receptor antagonist gene
                         . .1248,2631. .2716,3905. .4032,4234. .4458)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                      function="putative cytokine or cytokine antagonist"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                .;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match 95.9%; Score 37.4; DB 9; Length 6540; Best Local Similarity 97.4%; Pred. No. 0.0009; Matches 38; Conservative 0; Mismatches 1; Indels 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              970 TGGAGGAACAGGCAGACTCCACAGGTCCCGCCAGGAGAA 1008
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1 TTGAGGAACAGGCAGACTCCACAGCTCCCGCCAGGAGAA 39
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Immunogenetics 51 (6), 425-428 (2000)
20322477
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
/chromosome="2"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /map="2q13-q14"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /number=4
3905...4032
/gene="IL1L1"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            4234. .6522
/gene="IL1L1"
/number=6
                                                         gene="IL1L1"
                                                                                                                                                                                                                                                                                                                                                                                                         1249. .2630
/gene="IL1L1"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2717. .3904
/gene="IL1L1"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 4033. .4233
/gene="IL1L1"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AF216693
AF216693.1 GI:8572054
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2631. .2716
/gene="IL1L1"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Homo sapiens (human)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  gene, complete cds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               'number=5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        number=5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      'number=3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                number≃4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         10866108
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LIHY
                                                                                                                                                                                                                                                                                                                                                                                                            intron
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     intron
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             intron
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ACCESSION
VERSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              REFERENCE
AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      exon
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        JOURNAL
MEDLINE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          exon
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  exon
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PUBMED
                            CDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AF216693
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ORIGIN
```

ð 임 us-09-617-720a-2.rge

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             .
0
                                                                                                                                                                                  PAT 20-APR-2002
                                                                                                                                                                                                                                                                     Unknown.

Unknown.

Unclassified.

CE 1 (bases 1 to 7605)

RS Ford, J. and Pace, A.

Interleukin-1 receptor antagonist and recombinant production thereof

NAL Patent: Use 633702-A 8 08-JAN-2002;

Location/Qualifiers

Location/Qualifiers

1. 7605

/mol_type="unassigned DNA"
                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0;
                                   ;
0
Query Match

95.9%; Score 37.4; DB 6; Length 7605;
Best Local Similarity 97.4%; Pred. No. 0.00087;
Matches 38; Conservative 0; Mismatches 1; Indels 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match

95.9%; Score 37.4; DB 6; Length 7605;
Best Local Similarity 97.4%; Pred. No. 0.00087;
Matches 38; Conservative 0; Mismatches 1; Indels 0.
                                                                                                                                                                                  linear
                                                                                                 1838 regadegacadecrecacadecrececededaa 1876
                                                                1 TTGAGGAACAGGCAGACTCCACAGCTCCCGCCAGGAGAA 39
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 TTGAGGAACAGGCAGACTCCACAGCTCCCGCCAGGAGAA 39
                                                                                                                                                                                    DNA
                                                                                                                                                                                 AR181997 7605 bp
Sequence 8 from patent US 6337072.
AR181997.1 GI:20224913
                                                                                                                                                                                                                                                                Unknown.
                                                                                                                                                 RESULT 15
AR18197
LOCUS
DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                              REFERENCE
AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                                                                              JOURNAL
FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ORIGIN
                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               8
```

g

Search completed: March 13, 2005, 15:49:14 Job time : 176.432 secs

```
RESULT 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAF27921
                                                                                                        March 13, 2005, 10:45:20 ; Search time 1397.82 Seconds (without alignments) 10854.228 Million cell updates/sec
                                                                                                                                                                                                                             1 aggggagtctacaccctgtg......ataatatgcagagaaagaga 2563
                                                                                                                                                                                                                                                                                                                                                                8780412
GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                            Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                          4390206 seqs, 2959870667 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                           Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                         nucleic search, using sw model
                                                                                                                                                                                                                                                                 IDENTITY_NUC
Gapop 10.0 , Gapext 1.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               genesequ2003bs:*
genesequ2003cs:*
genesequ2003ds:*
genesequ2004as:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    N. Geneseq. 16Deco4:*

1: geneseqn1980s:*

2: geneseqn2000s:*

3: geneseqn2001s:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          genesegn2004bs:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         geneseqn2002as:*
geneseqn2002bs:*
geneseqn2003as:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       geneseqn2001bs:*
                                                                                                                                                                                                                                                                                                                                                                                                  Minimum DB seq length: 0
Maximum DB seq length: 2000000000
                                                                                                                                                                                      US-09-617-720A-1
2563
                                                                                                                                                                                        Title:
Perfect score:
                                                                                                                                                                                                                                                                   Scoring table:
                                                                             •
                                                                         OM nucleic
                                                                                                                                                                                                                               Sequence:
                                                                                                                                                                                                                                                                                                                          Searched:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Database
                                                                                                              Run on:
```

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

	uo.	Human IL-	Human PRO	Human cDN	Human PRO	Human and	Novel hum	Human cDN	Novel hum	cDNA enco	cDNA enco	cDNA enco	Human sec	Human cDN	cDNA enco	Novel hum	Novel hum	Novel hum	Novel hum	Human PRO	CDNA enco
	Description	Aaf27921	Aaf92133	Abs74453	Ab188229	Ab195718	Aca91239	Acd81616	Aca60438	Aca58885	Aca64061	Aca91325	Acd45224	Aca93772	Aca67346	Ach66319	Acd02373	Aca89364	Aca69001	Aca98523	Aca63448
SUMMARIES	Ω	AAF27921	AAF92133	ABS74453	ABL88229	ABL95718	ACA91239	ACD81616	ACA60438	ACA58885	ACA64061	ACA91325	ACD45224	ACA93772	ACA67346	ACH66319	ACD02373	ACA89364	ACA69001	ACA98523	ACA63448
	DB	5	4	9	9	9	ω	œ	œ	œ	œ	8	œ	œ	œ	œ	æ	œ	œ	œ	σ
	Length DB	2562	2598	2598	2598	2598	2598	2598	2596	2598	2598	2598	2598	2598	2598	2598	2598	2598	2598	2598	2598
	% Query Match	100.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	1.86	98.1	98.1	98.1
	Score	2562	2514.2	2514.2	2514.2	2514.2	2514.2	2514.2	2514.2	2514.2	2514.2	2514.2	2514.2	2514.2	2514.2	2514.2	2514.2	2514.2	2514.2	2514.2	2514.2
	Result No.	1	7	٣	4	5	φ	7	ω	6	10	11	12	13	14	15	16	17	18	19	20

Adb17208 Human cDN Ach03651 Human sec		Ada00482 Human sec Adb85724 Novel hum Adb68403 Human PRO Adb68210 Human PRO	677	Adc14984 Novel hum Adc52479 Novel hum Add10604 Human sec Add11564 Human sec	7 Human 5 Novel 6 Novel	Novel Novel Novel
ADB17208 ACH03651	ADB17396 ADA20185 ACD82165	ADA00482 ADB85724 ADB68403 ADB68210	ADB91027 ADC07107 ADC17286	ADC14984 ADC52479 ADD10604 ADD11564	ADD37357 ADD36155 ADG01156	ADF95330 ADH24183 ADH34209 ADH30042
000	,000	9 6 6 1 6 9	10	1001	0101	20000
2598	7 2 2 3 3 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	2598 2598 2598 2598	2598 2598 2598	722 722 722 722 722 722 722 723 723 723	2598 2598 2598	25 25 25 25 25 25 25 25 25 25 25 25 25 2
<b>8000</b>	98.1	98.1 98.1 98.1	98.1 98.1 98.1	98.1 98.1 98.1 1.0 1.0		966 966 11.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.
2514.2	2514.2 2514.2 2514.2 2514.2	2514.2 2514.2 2514.2 2514.2	2514.2 2514.2 2514.2	2514.2 2514.2 2514.2 2514.2		2514.2 2514.2 2514.2 2514.2
		22 28 30 30		8 8 8 8 8 8 8 4 8 8 6 7		1 4 4 4 4 1 5 6 4 7

## ALIGNMENTS

Human; IL-IL1; interleukin-1 locus; IL-1beta; IL-1receptor; psoriaais; chromosome 2q13; inflammatory disease; heart disease; Graves' disease; rheumatoid arthritis; inflammatory bowel disorder; diabetes; cancer; osteoporosis; systemic lupus erythematosus; ss. Nucleic acids encoding human and murine interleukin-1L1 polypeptides useful for controlling inflammatory processes. /\*tag= a /product= """IL-IL1"" /note= "this region is specifically claimed" Location/Qualifiers 30. .497 (INTE-) INTERLEUKIN GENETICS INC. BP. Claim 12; Fig 1; 150pp; English AAF27921 standard; cDNA; 2562 Human IL-IL1 coding sequence. 99US-0144298P. 17-JUL-2000; 2000WO-US019508 (first entry) Nicklin M, Barton J; WPI; 2001-091974/10. WO200105974-A2 Homo sapiens. 16-JUL-1999; 08-MAY-2001 25-JAN-2001 AAF27921; Key 

The present invention provides the protein and coding sequences of the

~

1020 1020 1080 1080 1140 1140 1200 1200 1260 1260 1320

```
CCGCAGGCCAACCCATCCCCAGTTGAGCCTTATAGGGTCAGTAGCTCTCCACATGAAGTC 900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AGGCAGAGATCGGAGTTTTGCAGCCACAAGCTAAGAAACACCAAGGATTGTGGCAACCAT
                                                                                                                                                                                                                                                                                                                                                                                                                                   AACAAAAATCATCTGGTAATTCTTTCCTAGAAGGATCACAGCCCCTGGGATTCCAAGGCA AACAAAAATCATCTGGGATTCCTAGAAGGATCACAGCCCCTGGGATTCCAAGGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CTCTCACTCACCACTGTGCAGGAGAGAGGTGGTCATAGAGTCAGGGATCTATGGCCCT
                                                                                                CTTCCCTCATCATCATGTGGGGCATGAGGAGGTGGTGATGTCAGAAGAAATGGTTCGA
                                                                                                                                                                                           1081 GCTCAGAAGATAAAGATAAGTAGGGTATGCTGATCCTCTTTTAAAAACCCCAAGATACAA
                                                                                                                                                                                                           TCAAAATCCCAGATGCTGGTCTCTATTCCCATGAAAAGTGCTCATGACATATTGAGAAG
                                                                                                                                                                                                                                                                 TCAAAATCCCAGATGCTGGTCTCTATTCCCATGAAAAAGTGCTCATGACATATTGAGAAG
                                                                                                                                                                                                                                                                                                                        AGCAGACATCATCTCTGATTGTCCTCAGCCTCCAATTCCCCCAGAGTAAATTCAAATTGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ACTGAGGAGGAGGCTGTGCTGAGTTTGTGTGCTGGAATCTCTGGGTAAGGAACTTAAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ACTGAGGAGGAGGCTGTGCTGAGTTTGTGTGGGCTGGAATCTCTGGGTAAGGAACTTAAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TIGGATCCAGICTCTAAGAAGGCIGCIGIAACIGGIIGAAITGIGICCCCCCCAAAITCAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Arccircingaarcicagicigaatriatringaagataaggicicigcagargiagi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TAGTTAAGACAAGGTCATGCTGGATGAAGGTAGACCTAAATTCAATATGACTGGTTTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TGGCCCAGCCCCACCCCTTCCCTTTATCCTGCCACTGTCATATGCTACCTTTCCTATCT
                                                                                                                                        CTTCCCTCATCATCTTGTGGGCATGAGGAGGTGGTGATGTCAGAAAATGGTTCGA
                                                                                                                                                                                                                                                                                                        ATTICITIATAGAAAAAGTCTGGAAGAGTTTACTTCAATTGTAGCAATGTCAGGGTGGT
                                                                                                                                                                                                                                                                                                                                                                                                                  GGCAGTATAGGTGATTTTTTTTTTTTTCTGTTAATTTAATTTTATCTGTATTTTCCTAATTTTTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ACAATGAAGATGAATTCCTTGTATAAAATTAAGAAAAGAAATTAATCTTGAGGTAAGCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AGCAGACATCATCTCTGATTGTCCTCAGCCTCCAATTCCCCAGAGTAAATTCAAATTGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TCGAGCTCTGCTCTGGTTGGTTGTAGTAGTGATCAGGAAACAGATCTCAGCAAAGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TCGAGCTCTGCTGCTCTGGTTGTTGTAGTAGTGATCAGGAAACAGATCTCAGCAAAGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ATCCTTCTTGGAATCTCAGTCTGTGAGTTTATTTGGAGATAAGGTCTCTGCAGATGTAGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TAGTTAAGACAAGGTCATGCTGGATGAAGGTAGACCTAAAATTCAATATGACTGGTTTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TGTATGAAAAGGAGAGACACAGAGACAGAGAGAGGGGGGGAAGACTATGTAAAGATGA
                                                                                                                                                                                                                                                                                                                                                             ATTICITIATAGAAAAAGICIGGAAGAGITITACITCAATIGIAGCAATGICAGGGIGGI
                                                                                                                                                                   1021
                                                                                                                                                                                                                                                     1141
                                                                                                                                                                                                                                                                                                          1201
                                                                                                                                                                                                                                                                                                                                                               1261
                                                                                                                                                                                                                                                                                                                                                                                        1261
                                                                                                                                                                                                                                                                                                                                                                                                                    1321
                                                                                                                                                                                                                                                                                                                                                                                                                                               1321
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1381
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1501
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1561
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1621
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1681
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1681
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1741
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1741
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1801
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1861
  841
                                                                                                              961
                                                                                                                                        1021
                                                                                                                                                                                                                         1081
                                                                                                                                                                                                                                                                              1141
                                                                                                                                                                                                                                                                                                                                   1201
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1381
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1501
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1561
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1621
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1801
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1861
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1921
                              901
                                                         901
                                                                                   961
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                            8 6
                                                                         8
                                                                                                    셤
                                                                                                                                        6 6 6 6 6
                                                                                                                                                                                                                                                                    원
장
                                                                                                                                                                                                                                                                                                                            Dp
                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                            8
                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        8 %
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       \delta
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ∂
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               8 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                   ö
human and murine interleukin-IL1 (IL-IL1) proteins. The IL-IL1 gene is located between the IL-1beta and IL-Ireceptor genes at human chromosome 2q13. The sequences are useful in the diagnosis, prevention and treatment of heart disease, cancer and inflammatory diseases such as rheumatoid arthitis, systemic lupus erythematosus, inflammatory bowel disorder, severe periodontal disease and pregnancy complications. The present sequence is the human IL-IL1 coding sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         900
                                                                                                                                                                                                                                                                 120
                                                                                                                                                                                                                                                                                           120
                                                                                                                                                                                                                                                                                                                      180
                                                                                                                                                                                                                                                                                                                                                  180
                                                                                                                                                                                                                                                                                                                                                                             240
                                                                                                                                                                                                                                                                                                                                                                                                       240
                                                                                                                                                                                                                                                                                                                                                                                                                                  300
                                                                                                                                                                                                                                                                                                                                                                                                                                                            300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             840
                                                                                                                                                                                                           9
                                                                                                                                                                                                                                     9
                                                                                                                                                                                                                                                                                                                                                                                                                                                GGGTGGGGCAGGAGCCGACTCTAACACTAGAGCCAGTGAACATCATGGAGCTCTATCTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CCGCAGGCCAACCCATCCCCAGTTGAGCCTTATAGGGTCAGTAGCTCTCCACATGAAGTC
                                                                                                                                                                                                                                                                 TGAAGGACTCGGCATTGAAGGTGCTTTATCTGCATAATAACCAGCTTCTAGCTGGAGGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GTGGGGGGGTGCTGGGAATCATTCCTGCTTAATGGTAACTGACAAGTGTTACCCTGAGCC
                                                                                                                                                                                                                                  AGGCGAGTCTACACCCTGTGGAGCTCAAGATGGTCCTGAGTGGGCGCCTGTGCTTCCGAA
                                                                                                                                                                                                                                                                                           rgaaggacrccgcarrgaaggrgcrrrrarcrgcaraaraaccagcrrcragcrggagggc
                                                                                                                                                                                                                                                                                                                        TCCATGCAGGGAAGGTCATTAAAGGTGAAGAAGATCAGCGTGGTCCCCCAATCGGTGGCTGG
                                                                                                                                                                                                                                                                                                                                                recarecadedaagercarraaagergaagaagarcagegreecceaarcegreecree
                                                                                                                                                                                                                                                                                                                                                                            ATGCCAGCCTGTCCCCGGCATCCTGGGTGTCCAGGGTGGAAGCCAGTGCCTGTCATGTG
                                                                                                                                                                                                                                                                                                                                                                                           ATGCCAGCCTGTCCCCCCGTCATCCTGGGTGTCCAGGGTGGAAGCCAGTGCCTGTCATGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                   GGGTGGGGCAGGAGCCGACTCTAACACTAGAGCCAGTGAACATCATGGAGCTCTATCTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GTGCCAAGGAATCCAAGAGCTTCACCTTCTACCGGCGGGGACATGGGGCTCACCTCCAGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TCGAGTCGGCTGCCTACCCGGGCTGGTTCCTGTGCACGGTGCCTGAAGCCGATCAGCCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TCGAGTCGGCTGCCTACCCGGGCTGGTTCCTGTGCACGGTGCCTGAAGCCGATCAGCCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TCAGACTCACCCAGCTTCCCGAGAATGGTGGTGGAATGCCCCCATCACAGACTTCTACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TCAGACTCACCCCAGCTTCCCGAGAATGGTGGCTGGAATGCCCCCATCACAGACTTCTACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TCCAGCAGTGTGACTAGGGCAACGTGCCCCCCAGAACTCCCTGGGCAGAGCCAGGCTCGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 rccadcagrergacragecaacerecececagaacreeeregecagecagerege
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GTGAGGGGTGAGTGGAGGACCCATGGCGGACAATCACTCTTTCTGCTCTCAGGACCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Grandedecrendadededecentedededecenterecreterecretededece
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             caggrerdactragregedecreactrirererreregerreceagrirecaraaarr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  creasarrresascreacrecasserecreeceeeresarssracreerereresaae
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CTTGTAAAAACCATGTGGGGTAAACTGGGAATAACATGAAAAGATTTCTGTGGGGGTGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        crigiaaaaaccargiggggraaacrgggaraaacargaaaagarrrcrgfggggggggg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Greededadrecredantarrecrecritarideralcreacidadadrecredadec
                                                                                                                                                                                                            <u> AGGGGAGTCTACACCCTGTGGAGCTCAAGATGGTCCTGAGTGGGGCGCTGTGCTTCCGAA</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GTGCCAAGGAATCCAAGAGCTTCACCTTCTACCGGCGCGCACATGGGGCTCACCTCCAGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CAGGTCTGACTTAGTGGGCACCTGACCACTTTGTCTTCTGGTTCCCCAGTTTGCATAAATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CTGAGATTTGGAGCTCAGTCCAGGGTCCTCCCCCACTGGATGGTGCTACTGCTGTGGAAC
                                                                                                                                                                                 Gaps
                                                                                                                                                                                ő
                                                                                                                                                      DB 5; Length 2562;
                                                                                                                            U; 0 Other;
                                                                                                                                                                                 Indels
                                                                                                                                                                                 ö
                                                                                                                           BP; 678 A; 579 C; 635 G; 670 T; 0
                                                                                                                                                     100.0%; Score 2562;
100.0%; Pred. No. 0;
ive 0; Mismatches
                                                                                                                                                     Query Match
Best Local Similarity 100.
Matches 2562; Conservative
                                                                                                                            Sequence 2562
                                                                                                                                                                                                                                                                                                                                                                                                       181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             601
                                                                                                                                                                                                                                                                 61
                                                                                                                                                                                                                                                                                                                        121
                                                                                                                                                                                                                                                                                                                                                                                                                                                            241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        541
                                                                                                                                                                                                                                                                                           61
                                                                                                                                                                                                                                                                                                                                                  121
                                                                                                                                                                                                                                                                                                                                                                             181
                                                                                                                                                                                                                                                                                                                                                                                                                                   241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             721
                                                                                                                                                                                                                               8888888888888
                                                                                                                                                                                                            ઠ
                                                                                                                                                                                                                                                                                                                                           음 상 음
                                                                                                                                                                                                                                                                                                                                                                                                                         8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             6 B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 $ B $
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           8 8 8
```

1380 1380 1440 1440 1500 1500 1560 1560 1620 1620 1680

1320

1740

1800 1800 1860 1860 1920 1920

8 8 ઠે 6 ይ

셤 8 g ઠ a ઠે g ઠ d ઠે g ઠે 셤 ò g

```
'n.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       217
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    157
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             277
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  337
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      397
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          457
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              517
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 576
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             900
                                                                                                                                                                         Eighty four nucleic acids encoding PRO polypeptides, useful in molecular biology, including use as hybridization probes, and in chromosome and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                97
                                                                                                                                                                                                                                                 The present sequence is the coding sequence for a human PRO polypeptide (secreted and transmembrane). The PRO protein, and PRO agonists, PRO antagonists or anti-PRO antibodies are useful for preparation of a medicament useful in the treatment of a condition which is responsive to the PRO protein, agonists, antagonists or anti-PRO antibodies. The PRO protein may also be employed as molecular weight markers for protein electrophoresis. The PRO coding sequence has applications in molecular biology, including use as hybridisation probes, and in chromosome and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                218 ATGCCAGCCTGTCCCCCGTCATCCTGGGTGTCCAGGGTGGAAGCCAGTGCCTGTCATGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GGGTGGGGCAGCAGACTCTAAACACTAGAGCCAGTGAACATCATGGAGCTCTATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         38 AGGGGGGTCTACACCCTGTGGAGCTCAAGATGGTCCTGAGTGGGGGGCGCTGTGCTTCCGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TGAAGGACTCGGCATTGAAGGTGCTTTATCTGCATAATAACCAGCTTCTAGCTGGAGGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GGGTGGGGCAGGAGCCGACTCTAACACTAGAGCCAGTGAACATCATGGAGCTCTATCTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ATGCCAGCCTGTCCCCCGTCATCCTGGGTGTCCAGGGTGGAAGCCAGTGCCTGTCATGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GTGCCAAGGAATCCAAGAGCTTCACCTTCTACCGGCGGACATGGGCTCACCTCCAGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TCGAGTCGGCTGCCTACCCGGGCTGGTTCCTGTGCACGGTGCCTGAAGCCGATCAGCCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TCGAGTCGGCTGCCTACCCGGGCTGGTTCCTGTGCACGTGCCTGAAGCCGATCAGCCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TCAGACTCACCCAGCTTCCCGAGAATGGTGGCTGGAATGCCCCCATCACAGACTTCTACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TGCATGCAGGGAAGGTCATTAAAGGTGAAGAGATCAGCGTGGTCCCCAATCGGTGGCTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GTGCCAAGGAATCCAAGAGCTTCACCTTCTACCGGGGGACATGGGGGCTCACCTCCAGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TCCAGCAGTGTGTGTGTCTAGGGCAACGTG-CCCCCCAGAACTCCCTGGGCAGAGCCAGGCTGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GTGAGGGGTGAGTGGAGGAGACCCATGGGGGACAATCACTCTTCTGCTCTCAGGACCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AGGGGAGTCTACACCCTGTGGAGCTCAAGATGGTCCTGAGTGGGGCGCTGTCCTTCCGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TGAAGGACTCGGCATTGAAGGTGCTTTATCTGCATAATAACCAGCTTCTAGCTGGAGGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TCAGACTCACCCCAGCTTCCCGAGAATGGTGGCTGGAATGCCCCCATCACAGACTTCTACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TCCAGCAGTGTGACTAGGGCAACGTGCCCCCCAGAACTCCCTGGGCAGAGCCAGCTCGG
                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                             Ε.
                                                                                                                                                                                                                                                                                                                                                                                                                    DB 4; Length 2598;
                                                                                                                                                                                                                                                                                                                                                                                                                                              3,
                                                                                           Godowski
                                                                                                                                                                                                                                                                                                                                                                                         C; 648 G; 673 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                              Indels
                                                                                          Goddard A,
Wood WI;
                                                                                                                                                                                                                                                                                                                                                                                                                                              8;
                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match 98.1%; Score 2514.2; Best Local Similarity 99.6%; Pred. No. 0; Matches 2552; Conservative 0; Mismatches
                                                                                           Gerritsen ME,
Watanabe CK,
                                                                                                                                                                                                                              Claim 2; Fig 151; 278pp; English
30-MAR-2000; 2000WO-US008439.
25-APR-2000; 2000US-0199397P.
22-MAY-2000; 2000WO-US014042.
05-JUN-2000; 2000US-0209832P.
                                                                                                                                                                                                                                                                                                                                                                                         Sequence 2598 BP; 687 A; 590
                                                                                          Filvaroff E,
                                                               (GETH ) GENENTECH INC
                                                                                                                                 WPI; 2001-183260/18.
P-PSDB; AAB87601.
                                                                                          Eaton DL, Fi
Grimaldi CJ,
                                                                                                                                                                                                  mapping
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         н
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    98
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  278
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       338
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            398
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               458
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          481
                                                                                                                                                                                                   gene
 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                        2040
                                                                 2100
                                                                                                                                               2160
                                                                                                                                                                         2220
                                                                                                                                                                                                   2220
                                                                                                                                                                                                                              2280
                                                                                                                                                                                                                                                                                 2340
                                                                                                                                                                                                                                                                                                            2340
                                                                                                                                                                                                                                                                                                                                      2400
                                                                                                                                                                                                                                                                                                                                                                                           2460
                                                                                                                                                                                                                                                                                                                                                                                                                                              2520
                                                                                                                                                                                                                                                                                                                                                                2400
                                                                                                                                                                                                                                                       AGTTGTCTTTGTGACCCAATAGAATATGGCAGAAGTGATGGCATGCCACTTCCAAGATTA 2280
                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAGCAGAGAGACTCTGTGAGATAATCGATGTTTGTTTTTAAGTTGCTTCAGTTTTGGTCTA 2520
                          CAGAAGCTTGGAAGAAGGAAAGAAGAATTCTTCCCTAGAGGCTTTAGAGGGATAACGGCT
                                                                                2341 AATCTAGCTCACTCGCTCTGGGGGAAGCTAGCCTGCCATGCTATGAGCAGGCCTAT
                                                                                                                                                                                                                                                                                                                                                                                                                  2401 AAAGAGACTTACGTGGTAAAAATGAAGTCTCCTGCCCACAGCCCACATTAGTGAACCTAG
             CAGAAGCTTGGAAGAGGCAAAGAAGAATTCTTCCCTAGAGGCTTTAGAGGGATAACGGCT
                                                                  TGTTTTAAGCCACCAAGGATAATTGGTTACAGCAGCTCTAGGAAACTAATACAGCTGCTA
                                                                                                                                                                                                                              AGTTGTCTTTGTGACCCAATAGAATATGGCAGAAGTGATGGCATGCCACTTCCAAGATTA
                                                                                                                                                                                                                                                                                 AATCTATCTTGGCTCACTCGCTCTGGGGGAAGCTAGCTGCCATGCTATGAGCAGGCCTAT
                                                                                                                                                                                                                                                                                                                                                                                           AAGCAGAGACTCTGTGAGATAATCGATGTTTGTTGTTTTAAGTTGCTCAGTTTTGGTCTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ACTIGITATGCAGCAATAGATAATAATATGCAGAGAAAGAG 2562
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       88
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2000MO-US004341.
2000MO-US004342.
2000MO-US004114.
2000MO-US005601.
2000US-0187202P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   99WO-US021090.
99US-0169495P.
99US-0170262P.
2000US-0175481P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CDNA; 2598
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2000WO-US023328
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       99WO-US020111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human; PRO protein; mapping;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 15-MAY-2001 (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAF92133 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRO4342 CDNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WO200116318-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          11-JAN-2000; 2
18-FEB-2000; 2
18-FEB-2000; 22-FEB-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               01-MAR-2000;
03-MAR-2000;
21-MAR-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  15-SEP-1999;
07-DEC-1999;
09-DEC-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           24-AUG-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        01-SEP-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   08-MAR-2001
             1981
                                      1981
                                                                 2041
                                                                                          2041
                                                                                                                    2101
                                                                                                                                             2101
                                                                                                                                                                         2161
                                                                                                                                                                                                   2161
                                                                                                                                                                                                                              2221
                                                                                                                                                                                                                                                     2221
                                                                                                                                                                                                                                                                                 2281
                                                                                                                                                                                                                                                                                                            2281
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2461
                                                                                                                                                                                                                                                                                                                                      2341
                                                                                                                                                                                                                                                                                                                                                                                         2401
                                                                                                                                                                                                                                                                                                                                                                                                                                              2461
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2521
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2521
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAF92133
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human
```

ò

1880   NTTGATTCCAGTCTCTANAAAGCTCCTGTTCAATTCTGTTCCCCCCCCCC	RESULT 3 ABS74453 ID ABS74453 standard; CDNA; 2598 BP. XX AC ABS74453; XX DT 10-DEC-2002 (first entry) XX DE Human cDNA encoding secreted/transmembrane protein PR04342. XX
STATEMENT   STAE	1500 ATCGAGCTCTGCTGCTTGGTTGTTGTAGTGATCAGGAAACAGTCTCAGCAAAGC

90 A

දු දු

\$ B \$

ବର ଧର

3 B 3 B 3 B 3

```
antiarthritic; osteopathic; sports-related joint problem; articular cartilage defect; osteoarthritis; rheumatoid arthritis.
                                                                                                                                                                                                                                                                     98US - 0090648P

98US - 009068BP

98US - 0091628P

98US - 0091628P

98US - 0096249P

98US - 0096549P

98US - 009659P

98US - 009699P

98US - 0097971P

98US - 0097971P

98US - 0099741P

98US - 0099741P
                                                                                                                                                                                                                                                                                                                                                                                                                                              98WO-US019330.
98US-0100683P.
98US-0100684P.
98US-0100930P.
                                                                                                                                                              98US-0088030P.
98US-0088734P.
98US-0088740P.
98US-0088811P.
98US-0088824P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         980S-0101735P
980S-0101738P
980S-0101743P
980S-0101916P
980S-0102570P
                                                                                                                                                                                                                                    98US-0089514P.
98US-0089653P.
98US-0089952P.
98US-0090246P.
                                                                                            97US-0063435P.
97US-0064215P.
98US-0082797P.
                                                                                                                                      98US-0087759P.
98US-0088021P.
98US-0088029P.
                                                                                                                                                                                                                   98US-0088863P.
                                                                            06-DEC-2001; 2001US-00006867
                                                                                                                     98US-0083495P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               99WO-US005028
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     99WO-US010733
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               99WO-US012252
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2000WO-US004341
2000WO-US004342
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2000WO-US004414
2000WO-US005601
                                          US2002119130-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                18-FEB-2000;
22-FEB-2000;
01-MAR-2000;
                                                                                                                                                                                                                                                                                                                                                                          10.5EP-1998;
10.5EP-1998;
10.5EP-1998;
10.5EP-1998;
10.5EP-1998;
10.5EP-1998;
16.5EP-1998;
16.5EP-1998;
16.5EP-1998;
17.5EP-1998;
17.5EP-1998;
17.5EP-1998;
17.5EP-1998;
17.5EP-1998;
17.5EP-1998;
                                                                                                             22-APR-1998;
29-APR-1998;
15-MAY-1998;
02-JUN-1998;
04-JUN-1998;
04-JUN-1998;
10-JUN-1998;
10-JUN-1998;
10-JUN-1998;
                                                                                                                                                                                                                                                                     24 JUN - 1998;
25 JUN - 1998;
25 JUN - 1998;
02 JUL - 1998;
10 AUG - 1998;
17 AUG - 1998;
18 AUG - 1998;
                          Homo sapiens
                                                                                                                                                                                                                                    16-JUN-1998;
17-JUN-1998;
19-JUN-1998;
22-JUN-1998;
                                                                                                                                                                                                                                                                                                                                                  26-AUG-1998;
26-AUG-1998;
26-AUG-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    24-SEP-1998;
30-SEP-1998;
06-OCT-1998;
08-MAR-1999;
                                                                                                                                                                                                  10-JUN-1998;
                                                                                                                                                                                                                   11-JUN-1998;
                                                           29-AUG-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           23-SEP-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            24-SEP-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     14-MAY-1999
```

Sequence 2598 BP; 687 A; 590 C; 648 G; 673 T; 0 U; 0 Other;

nvention

```
The invention relates to an isolated secreted and transmembrane PRO polyeptide having 80 % sequence identity to a sequence appearing as as ABG5581-ABG55934 or their associated signal peptide. Or a sequence of a ABG5581-ABG55934 or their associated signal peptide are a sequence of a ABG5581-ABG55934 or their associated signal peptide are the nucleic acids encoding the proteins with their associated signal peptide and a sequence of a ABG5581-ABG55934 or their associated signal peptide acids encoding the proteins are the nucleic acids encoding the proteins, vectors, host cells, fusion proteins are useful for detecting a polypeptide esignated as A, B, C or D in a sample supported of containing an A, B, C or D polypeptide, by contacting the sample with a polypeptide designated as B, B, C or D II polypeptide and determining the formation of a A/B, B/P, B/G, C/H or D/I polypeptide and determining the presence of an A, B, C or D polypeptide in the sample, where A is a PRO1950 polypeptide, B is a PRO3950 polypeptide in the sample, where A is a PRO1950 polypeptide, B is a PRO3950 polypeptide or a PRO3950 polypeptide, B is a PRO3950 polypeptide, F is a PRO3950 polypeptide, B is a PRO3950 polypeptide or a call suspected of expressing the A, B, C or D polypeptide or a call suspected of expressing the A, B, C or D polypeptide or a call suspected of expressing the A, B, C or D polypeptide or a call suspected of expressing a polypeptide designated as A, B, C or D or B, F, G, H or I The bioactive molecule causes death of the cell. A, B, C, D, B, F, G, H or I The bioactive molecule is a toxin, a radiolable or an antibody. The bioactive molecule is a polypeptide designated as A, B, C or D or B, F, G, H, or I The bioactive molecule is a polypeptide designated as A, B, C or D or B, F, G, H, or I The bioactive molecule is a polypeptide designated as A, B, C or D or B, F, G, H, or I The bioactive molecule is a polypeptide or a coll expressing a polypeptide or a coll or a call expressing a polypeptide or a coll or a call expressing a 
                                                                                                                                                                                                                                                                                                                                                                                                                              New isolated secreted and transmembrane PRO polypeptide useful for modulating biological activity of a cell, or for treating sports-related joint problems, osteoarthritis or rheumatoid arthritis.
                                                                                                                                                                                                                                                                                                                            Godowski PJ;
                                                                                                                                                                                                                                                                                                                          Goddard A,
Wood WI;
                                                                                                                                                                                                                                                                                                                          Gerritsen ME,
Watanabe CK,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Claim 2; Fig 151; 399pp; English,
                                                                                                                                                          2001WO-US006666.
2001WO-US017443.
2001WO-US017800.
2001WO-US019692.
                                                                                                       2000WO-US032378.
2000WO-US034956.
2001WO-US006520.
                                                                     2000WO-US023328
                                                                                      2000WO-US030873
                                                                                                                                                                                                                                     2001WO-US021066
                                                                                                                                                                                                                                                    2001WO-US021735
                                                                                                                                                                                                                                                                                                                          Filvaroff E,
                                                                                                                                                                                                                                                                                        (GETH ) GENENTECH INC.
                                                                                                                                                                                                                                                                                                                          Eaton DL, Filvaroff
Grimaldi JC, Gurney
                                                                                                                                                                                                                                                                                                                                                                               WPI; 2002-731348/79.
P-PSDB; ABG95926.
                              02-JUN-2000; 2
24-AUG-2000; 2
10-NOV-2000; 2
01-BC-2000; 2
8-PER-2001; 2
01-MAR-2001; 2
30-MAY-2001; 2
01-JUN-2001; 2
                                                                                                                                                                                                                                                    09-JUL-2001;
```

	1200	Oy 1260 Db 1297 Oy 1320	300  Db 1357 TGGCAGTATAGGTGATTTTTCTTTTAATTTGTTAATTTCTGTATTTTCCTAATTTTTC  337  Qy 1380 TACAATGAAGATGAATTCCTTGTATAAAAAAAAAAAAAA	QY 1440 GAGCAGACATCATCTCTGATTGTCCTCAGTCCAGAGTAAATTCAAATTGA 420 Db 1477 GAGCAGCATCATCATTGTTTTTTTTTTTTTTTTTTTTTT	Oy 1500 80 Db 1537	Qy 1560 Db 1597	1620 GAACAAAATCATCTGGTAATTCTTTCCTAGAAGGATCACACCCCTGGGATTCCAAGGC	ATTGGATCCAGTCTCTAAGAAGCTGCTGTACTGGTTGAATTGTGTCCCCCTCAAATTCA 	1740	1800	1860	900 1920 AAGGCAGAGAITTTGGAGCTTTTGGAGCTAAGAACACCAAGGATTGTGGCAACCA 	960 Db 2017 TCAGAAGCTTGGAAGACCAAAGAAGAATTCTTCCCTAGAGGCTTTAGAGGGATAACGGC 960 Db 2017 TCAGAAGCTTGGAAGAGCAAAGAAGAATTCTTCCCTAGAGGCTTTAGAGGGATAACGGC	Qy   2040 TCTGCTGAAACCTTAATCTCGGACCTCCTGAACGAAGAAAGA
Gaps CCGAA CCGAA CCGAA	98 TGANGTICGGCATTGANGTGCTTTTATCTGCATAATAACCAGCTTCTTAGCTGGGGGGGG	ATGCCAGCCTGTCCCCGTCCTGGGTGTCCAGGGTGGAGCCAGTGCCTGTCATGTG	21 GGGTGGGGGGGGGTCTAACACTAGAGCCGGTGAACATCATGGGGCTCTATCTTG  [	TCGAGTCGCTGCTACCCGGGTGGTTCTGGCACGGTGCCTGAAGCCGATCAGCCTG	TCAGACTCACCAGCTTCCCGAGAATGGTGGCTGGAATGCCCCCATCACAGCTTCTACT	TCCAGCAGTGTGACTAGGGCAACGTGCCCCCCAGAACTCCCTGGGCAGAGCCAGCTCGG		601 CAGGTCTGACTTAGTGGGCACCTGACCACTTTGTCTTCTGGTTCCCAGTTTGCATAAATT	661 CTGAGATTTGGAGCTCAGTCCAGGGTCCTCCCCACTGGATGGTACTGCTGTGGAAC	721 CTTGTAAAAACCATGTGGGGTAAACTGGGAATAACATGAAAAGATTTCTGTGGGGGTGGG 	781 GIGGGGGAGIGCIGGGAAICATICCIGCTIAAIGGIAACIGAAGIGITACCIGAGGC	CCGCAGGCCAACCCATCCCCAGTTGAGCCTTATAGGGTCAGTAGCTCTCCACATGAAGTC CCGCAGGCCAACCCATCCCCAGTTGAGGTCAGTAGGTCAGTAGCTCTCCACATGAAGTC		TGGCCCAGCCCCACCCCTTCCTTT-ATCCTGCCACTGTCATATGCTACCTTTCCTATCTTCTATCTTCTATCTTCTATCTTCTATCTTCT

```
ABL88072 to ABL88258 encode the PRO proteins given in ABB84817 to ABB85003. The PRO proteins and polynucleotides have cardiant, cytostatic, antiangiogenic, hypotensive, vulnerary and antiarteriosclerotic cactivities, and can be used in gene therapy. The PRO polynucleotides, proteins, agonists and antagonists are useful for treating or diagnosing a cardiovascular, endothelial or angiogenic disorder in a mammal, e.g. cardiac hypertrophy, trauma, cancer, age-related macular degeneration, atherosclerosis, hypertension, arterial restenosis, rheumatoid arthritis, angiogenesis (such as breast carcinoma and liver carcinoma) and wound healing. The PRO polynucleotides have applications in molecular biology, including use as hybridisation probes, and in chromosome and gene mapping. ABL88259 to ABL88267 represent primers and probes used in the exemplification of the present invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 AGGGAGTCTACACCCTGTGGAGCTCAAGATGGTCCTGAGTGGGGGCGCTGTGCTTCCGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  38 AGGGGAGTCTACACCCTGTGGAGCTCAAGATGGTCCTGAGTGGGGCGCCTGTGCTTCCGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                98 reaadgacricegcarreaaggrecrrrarcrecaraaraaccagcrrcragcregaggc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  121 TGCATGCAGGGAAGGTCATTAAAGGTGAAGAGATCAGCGTGGTCCCCCAATCGGTGGCTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  158 TGCATGCAGGGAAGGTCATTAAAGGTGAAGAGATCAGCGTGGTCCCCCAATCGGTGGCTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  61 TGAAGGACTCGGCATTGAAGGTGCTTTATCTGCATAATAACCAGCTTCTAGCTGGAGGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ATGCCAGCCTGTCCCCCGTCATCCTGGGTGTCCAGGGTGGAAGCCAGTGCCTGTCATGTG
                                                                                                                                                                                                                                                                                                                                                                                                               Hillan KJ, Marsters SA, Pan J, Paoni NF, Williams PM, Wood WI, Ye W;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                One hundred and eighty seven nucleic acids encoding PRO polypeptides, useful in diagnosis and treatment of cardiovascular (e.g. myocardial infarction), endothelial or angiogenic disorders in a mammal.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                3; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match 98.1%; Score 2514.2; DB 6; Length 2598; Best Local Similarity 99.6%; Pred. No. 0; Matches 2552; Conservative 0; Mismatches 8; Indels 3;
                                                                                                                                                                                                                                                                                                                                                                                                 Goddard A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 2598 BP; 687 A; 590 C; 648 G; 673 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                 Gerritsen ME,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 2; Fig 315; 565pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                   Gerber H,
                                                               2000MO-US034956.
2001US-00767609.
2001WO-US006520.
2001WO-US00666.
2001WS-00802706.
2001US-0080289.
2001US-00828166.
2001US-00854208.
2001US-00854208.
                                                                                                                                                                                                                                                                2001US-00866034
                                                                                                                                                                                                                                                                                 2001WO-US017092.
                                                                                                                                                                                                                                                                                                2001US-00870574
                                                                                                                                                                                                                                                                                                                 2001WO-US017443
                                                                                                                                                                                                                                                                                                                                01-JUN-2001; 2001WO-US017800
                                                                                                                                                                                                                                                                                                                                                                                                                 PJ, Gurney AL,
JF, Watanabe CK,
                                                                                                                                                                                                                                                                                                                                                                 (GETH ) GENENTECH INC.
                                                                                                                                                                                                                                                                                                                                                                                                 Baker KP, Ferrara N,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 2002-090516/12.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                P-PSDB; ABB84974
                                                                                22-JAN-2001;
                                                                                                              28-FEB-2001;
01-MAR-2001;
                                                                                                                                                                                                05-APR-2001;
                                                                                                                                                                                                                                              25-MAY-2001;
                                                                                                                                                                                                                                                                 25-MAY-2001;
                                                                                                                                                                                                                                                                                 25-MAY-2001;
30-MAY-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                  Stephan JF,
                                                                                                                                                                                                                                                                                                                                                                                                                    Godowski
 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ŝ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ઠે
                  2196
                                                                                                                                                                                                              2376 CAATCTATCTTGGCTCACTCGCTCTGGGGGAAGCTAGCTGCCATGCTATGAGCAGGCCTA 2435
                                                                                                                                                                                                                                                                                                                                    2436 TAAAGAGACTTACGTGGTAAAAAATGAAGTCTCCTGCCCACAGCCACATTAGTGAACCTA 2495
                                                                                                                                                                                                                                                                                                                                                                                                                 2496 GAAGCAGAGACTCTGTGAGATAATCGATGTTTGTTGTTTTAAGTTGCTCAGTTTTGGTCT 2555
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               vulnerary; antiarteriosclerotic; PRO agonist; PRO antagonist; trauma; gene therapy; cardiovascular disorder; andothalial disorder; cancer; angiogenic disorder; cardiac hypertrophy; atherosclerosis; hypertension; age-related macular degeneration; arterial restenosis; angina; hymenacidia arthritis; mycoardial infarction; thrombophlebitis; tymous angiogenesis; breast carcinoma; liver carcinoma; wound healing; chromosome mapping; gene mapping; gene; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human; angiogenesis; cardiant; cytostatic; antiangiogenic; hypotensive;
                                                                    2460 GAAGCAGAGACTCTGTGAGATAATCGATGTTTGTTGTTTTAAGTTGCTCAGTTTTGGTCT
               CTGTTTTAAGCCACCAAGGATAATTGGTTACAGCAGCTCTAGGAAACTAATACAGCTGCT
                                                                                                                                               AAGTIGICITIGIGA-CCAATAGAATATGGCAGAAGTGATGGCATGCCACTTCCAAGATT
                                                                                                                                                                                                                                                CAATCTATCTTGGCTCACTCGCTCTGGGGGAAGCTAGCTGCCATGCTATGAGCAGCCCTA
                                                                                                                AAGTTGTCTTTGTGACCCAATAGAATATGGCAGAAGTGATGGCATGCCACTTCCAAGATT
                                                                                                                                                                               2400 TAAAGAGACTTACGTGGTAAAAATGAAGTCTCCTGCCCACAGCCACATTAGTGAACCTA
2556 AACTTGTTATGCAGCAATAGATAAATAATATGCAGAGAAAGAG 2598
                                                                                                                                                                                                                                                                                                                                                                                                                                                 AACTIGTTATGCAGCAATAGATAAATAATATGCAGAGAAAGAG 2562
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human PRO4342 cDNA sequence SEQ ID NO:315.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ВЪ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            23-JUN-2000; 2000US-0213637P.
20-JUL-2000; 2000US-0219556P.
25-JUL-2000; 2000US-0220664P.
25-JUL-2000; 2000WS-0220664P.
28-JUL-2000; 2000WS-0222695P.
17-AUG-2000; 2000US-0225695P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ABL88229 standard; cDNA; 2598
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              24-AUG-2000; 2000WO-USC23328.
07-SEP-2000; 2000US-0230978P.
18-SEP-2000; 2000US-00664610.
18-SEP-2000; 2000US-00665350.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 20-JUN-2001; 2001WO-US019692
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                24-OCT-2000; 2000US-0242922P
08-NOV-2000; 2000US-00709238
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 16-MAY-2002 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WO200200690-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  03-JAN-2002
                                                 2160
                                                                              2197
                                                                                                                2220
                                                                                                                                             2257
                                                                                                                                                                               2280
                                                                                                                                                                                                                                                2340
                                                                                                                                                                                                                                                                                                                                                                                                                                                 2520
                 2137
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ABL88229;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ઠે
                                                                       셤
                                                                                                              ð. 원
                                                                                                                                                                              ઠે
                                                                                                                                                                                                       엄
                                                                                                                                                                                                                                              δ
                                                                                                                                                                                                                                                                      ద
                                                                                                                                                                                                                                                                                                              ઠ
                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                              ઠ
                                                                                                                                                                                                                                                                                                                                                                                                             유
                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           유
```

ë

9 97 217

240

셤 ò 셤 ò g

```
The present invention provides the protein and coding sequences of human PRO proteins. These are useful for treating or diagnosing a cardiovascular, endothelial or angiogenic disorder, including cardiac hypertrophy, trauma, cancer, age-related macular degeneration, atherosclerosis, hypertension, arterial restenois, rheumatoid arthritis, angina, myocardial infarctions, thrombophlebitis, lymphangitis, tumour angiogenesis (such as breast carcinoma and liver carcinoma) and wound
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      218 ATGCCAGCCTGTCCCCCGTCATCCTGGGTGTCCAGGGTGGAAGCCAGTGCCTGTCATGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 278 GGGTGGGGCAGGAGCCGACTCTAACACTAGAGCCAGTGAACATCATGGAGCTCTATCTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            38 AGGGGAGTCTACACCCTGTGGAGCTCAAGATGGTCCTGAGTGGGGCGCTGTGCTTCCGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TGAAGGACTCGGCATTGAAGGTGCTTTATCTGCATAATAACCAGCTTCTAGCTGGAGGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              98 reaaggacregecarreaaggrecritarergeararaaccagerreragergaagge
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TGCATGCAGGGAAGGTCATTAAAGGTGAAGAGATCAGCGTGGTCCCCCAATCGGTGGCTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             181 ATGCCAGCCTGTCCCCCGTCATCCTGGGTGTCCAGGGTGGAAGCCAGTGCCTGTCATGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GGGTGGGGCAGGAGCCGACTCTAACACTAGAGCCAGTGAACATCATGGAGCTCTATCTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GTGCCAAGGAATCCAAGAGCTTCACCTTCTACCGGCGGGACATGGGGGCTCACCTCCAGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GTGCCAAGGAATCCAAGAGCTTCACCTTCTACCGGCGGGACATGGGGCTCACCTCCAGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TCGAGTCGGCTGCCTACCCGGGCTGGTTCCTGTGCACGGTGCCTGAAGCCGATCAGCCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TCGAGTCGGCTGCCTACCCGGGCTGGTTCCTGTGCACGGTGCCTGAAGCCGATCAGCCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TCAGACTCACCCAGCTTCCCGAGAATGGTGGAATGCCCCATCACAGCTTCTACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 AGGGGAGTCTACACCCTGTGGAGCTCAAGATGGTCCTGAGTGGGGGGCGCTGTGCTTCCGAA
                                                                                                                                                                                                                 Paoni NF;
                                                                                                                                                                                                                                                                                             One hundred and eighty seven nucleic acids encoding PRO polypeptides, useful in diagnosis and treatment of cardiovascular (e.g. myocardial infarction), endothelial or angiogenic disorders in a mammal.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           healing. The present sequence is a coding sequence of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 2514.2; DB 6; Length 2598;
Pred. No. 0;
0; Mismatches 8; Indels 3;
                                                                                                                                                                                                   Gerber H, Gerritsen ME, Goddard A;
L, Hillan KJ, Marsters SA, Pan J,
CK, Williams PM, Wood WI, Ye W;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 2598 BP; 687 A; 590 C; 648 G; 673 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                   Claim 1; Fig 315; 567pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity 99.6%;
Matches 2552; Conservative
                                                                                                                                                                                                                 Godowski PJ, Gurney AL,
Stephan JF, Watanabe CK,
                                         GODDARD A.
GODOWSKI P J.
GURNEY A L.
HILLAN K J.
MARSTERS S A.
             GERBER H.
GERRITSEN M E.
                                                                                                                   PACOLI N. F. STEPHAN J. F. WATANABE C. K. WILLIAMS P. M. WOOD W. I.
                                                                                                                                                                                                      Ferrara N,
                                                                                                                                                                                                                                                        WPI; 2002-171999/22.
P-PSDB; ABB95580.
                                                                                                         PAN J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         361
                                                                                                                                                                                                   Baker KP,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              338
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    398
                           (GERR/) (GODD/) (GODD/) (GODD/) (GURN/) (HILL/) (MARS/) (PANJ/) (PANJ/) (PANJ/) (WATR/) (WATR/) (WATR/) (WOOD/) (WOOD/)
  (FERR/)
(GERB/)
    ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Ś
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        පු
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                         2519
                                                                   2555
               2436 TAAAGAGACTTACGTGGTAAAAAATGAAGTCTCCTGCCCACAGGCCACATTAGTGAACCTA 2495
                                                                                                                                                                                                                                                                                                 cancer;
disorder;
                                                        2496 GAAGCAGAGACTCTGTGAGATAATCGATGTTTGTTGTTGTTTTAAGTTGCTCAGTTTTGGTCT
                                         GAAGCAGAGACTCTGTGAGATAATCGATGTTTGTTGTTTTAAGTTGCTCAGTTTTGGTCT
Human; angiogenesis; PRO protein; cardiovascularisation; wound; atherosclerosis; cardiac hypertrophy; gene therapy; endothelial cardiant; cytostatic; antiangiogenic; hypotensive; vulnerary; antiarteriosclerotic; gene; 88.
                                                                                                          2556 AACTTGTTATGCAGCAATAGATAAATAATATGCAGAGAAAGAG 2598
                                                                                              AACTTGTTATGCAGCAATAGATAAATAATATGCAGAGAAAGAG 2562
                                                                                                                                                                                                                                                                      Human angiogenesis related cDNA PRO4342 SEQ ID NO: 315.
                                                                                                                                                                                        BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2000MO-US023522
2000MO-US023328
2000US-0230978P
2000US-00664610
2000US-00665350
2000US-0242222P
2000US-00709238
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2001MO-US006520
2001WG-US006666
2001US-00802706
2001US-00816744
2001US-00816744
2001US-00816744
2001US-00816740
2001US-0081674
                                                                                                                                                                                        ABL95718 standard; cDNA; 2598
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2000WO-US020710.
2000US-0222695P.
2000US-00643657.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2000WO-US030873.
2000WO-US032678.
2000US-00747259.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2000WO-US034956.
2001US-00767609.
2001US-00796498.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2001WO-US017092.
2001US-00870574.
                                                                                                                                                                                                                                                                                                                                                                                                                                              09-JUL-2001; 2001WO-US021735
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2000WO-US030952
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2001US-00866028
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2001WO-US017800
2001WO-US019692
                                                                                                                                                                                                                                          (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GENENTECH INC.
BAKER K P.
                                                                                                                                                                                                                                                                                                                                                                                          WO200208284-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             22-MAR-2001; 2
05-APR-2001; 2
10-MAY-2001; 2
10-MAY-2001; 2
25-MAY-2001; 2
25-MAY-2001; 2
25-MAY-2001; 3
30-MAY-2001; 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         22-JAN-2001;
28-FEB-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    01-JUN-2001;
                                                                                                                                                                                                                                          19-JUL-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           02-AUG-2000;
17-AUG-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              28-FEB-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           01-MAR-2001;
09-MAR-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   14-MAR-2001;
                                                                                                                                                                                                                                                                                                                                                                Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      23-AUG-2000;
24-AUG-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 07-SEP-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            18-SEP-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                      31-JAN-2002
                                         2460
                                                                                              2520
                                                                                                                                                                                                                 ABL95718;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (GETH ) (BAKE/)
                                                                                                                                                                       RESULT 5
```

e,

9 97 120 157 180 217 240 277 300 360

397 420 457 480

g &

1150 CACTORAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGA
1 AACA DI QUE DE
48 TORGACTOCCOGGINGCOMOTOCCOCCONACTOCCOCCOCACACTOCCOS 510 511 FINISHING TORGACONACTOCCOCCOCACACTOCCOCCOCACTOCCOS 510 512 FINISHING TORGACOCACTOCCOCCOCCOCACACTOCCOCCOCCOCCOS 510 513 FINISHING TORGACOCACTOCCOCCOCCOCCOCCOCCOCCOCCOCCOS 510 514 CTOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOC

us-09-617-720a-1.rng

360

397

420 457 480 540 576 900

517

99 969 720 756 780 816 840 876 900 936 960 966

636

```
GTGCCAAGGAATCCAAGAGCTTCACCTTCTACCGGCGGGACATGGGGCTCACCTCCAGCT
                                                                                  TCGAGTCGGCTGCCTACCCGGGCTGGTTCCTGTGCACGGTGCCTGAAGCCGAACAGCCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Greededededededaarcarrecrectraaregraacreacaagrerraccreage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CCGCAGGCCAACCCATCCCCCAGTTGAGCCTTATAGGGTCAGTAGCTCTCCACATGAAGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CTGTCACTCACCACTGTGCAGAGAGAGAGGTGGTCATAGAGTCAGGGATCTATGGCCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TGGCCCAGCCCCCTTTCCCTTT-ATCCTGCCACTGTCATATGCTACCTTTCCTATC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TCTTCCCTCATCATCTTGTTGTGGGCATGAGGAGGTGGTGATGTCAGAAGAAATGGTTCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TCTTCCCTCATCATCTTGTTGTGGGCATGAGGAGGTGGTGATGTCAGAAGAAATGGCTCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AGCTCAGAAGATAAAAGATAAGTAGGGTATGCTGATCCTCTTTTAAAAACCCAAGATACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ATCAAAATCCCAGATGCTGGTCTCTATTCCCATGAAAAGTGCTCATGACATATTGAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GACCTACTACAAAGTGGCATATATTTTTTTTTTAATTAAAAGATACCTATTTATA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TATTICITIATAGAAAAAGICTGGAAGAGTTTACTTCAATTGTAGCAATGTCAGGGTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 rescaeraraestrarritrarritrarricrerrarritrarritrecerarritre
                                                                                                                                                   TCAGACTCACCCAGCTTCCCGAGAATGGTGGCTGGAATGCCCCCATCACAGACTTCTACT
                                                                                                                                                                                                   TCCAGCAGTGTGACTAGGGCAACGTGCCCCCCAGAACTCCCTGGGCAGAGCCAGCTCGG
                                                                                                                                                                                                                      TCCAGCAGTGTGAGCTAGGGCAACGTG- CCCCCCAGAACTCCCTGGGCAGAGCCAGGCTCGG
                                                                                                                                                                                                                                                                      GTGAGGGGTGAGTGGAGGAGACCCATGGCGGACAATCACTCTTTCTGCTCTCAGGACCCC
                                                                                                                                                                                                                                                                                                                                                                                                          CTGAGATTTGGAGCTCAGTCCAGGGTCCTCCCCCACTGGATGGTGCTACTGCTGTGGAAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CTTGTAAAAACCATGTGGGGTAAACTGGGAATAACATGAAAAGATTTCTGTGGGGGTGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CTTGTAAAAACCATGTGGGGTAAACTGGGAATAACATGAAAAGATTTCTGTGGGGGTGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GTGGGGGAGTGCTGGGAATCATTCCTGCTTAATGGTAACTGACAAGTGTTACCCTGAGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CTCTCACTCACCACTGTGCAGGAGGGGAGGTGGTCATAGAGTCAGGGATCTATGGCCCT
                                                                                                                                  TCAGACTCACCCAGCTTCCCGAGAATGGTGGCTGGAATGCCCCCATCACAGACTTCTACT
                                                                                                                                                                                                                                                                                         CAGGICTGACTTAGTGGGCACCTGACCACTTTGTCTTCTGGTTCCCAGTTTGCATAATT
                                                                                                                                                                                                                                                                                                                                                                       CACGICTGACTTAGTGGGCACCTGACCACTTTGTCTTCTGGTTCCCCAGTTTGGATAAATT
                                                                                                                                                                                                                                                                                                                                                                                                                                          creagarrregaecreagrecacerececeecearegaecracracracrecrerera
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TGGCAGTATAGGTGATTTTTCTTTTAATTCTGTTAATTTATCTGTATTTCCTAATTTTTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1380 TACAATGAAGATGAATTCCTTGTATAAAAATAAGAAAATTAATCTTGAGGTAAGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              817
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1020
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1080
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1117
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1237
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1260
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1297
                                 338
                                                                                                  398
                                                                                                                                                                                                     481
                                                                                                                                                                                                                                      518
                                                                                                                                                                                                                                                                        541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                877
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   937
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     196
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1357
301
                                                                 361
                                                                                                                                  421
                                                                                                                                                                                                                                                                                                                                         601
                                                                                                                                                                                                                                                                                                                                                                        637
                                                                                                                                                                                                                                                                                                                                                                                                            661
                                                                                                                                                                                                                                                                                                                                                                                                                                           697
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              757
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  901
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1320
                          ብ ራ
                                                                                      g
                                                                                                                                9
9
                                                                                                                                                                                            ð
                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                           음 장
                                                                                                                                                                                                                                                                                                                                                                   Dp
                                                                                                                                                                                                                                                                                                                                                                                                        ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         용
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ठ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ∂
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TGAAGGACTCGGCATTGAAGGTGCTTTATCTGCATAATAACCAGCTTCTAGCTGGAGGGC 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             157
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            217
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               277
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  337
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       97
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The invention describes an antibody that specifically binds to a PRO polypeptide having a fully defined amino acid sequence given in the specification. The antibody is useful in identifying PRO polypeptides useful for various industrial applications, including pharmaceuticals, diagnostics, biosensors and bioreactors. The antibody is also used for affinity purification of PRO polypeptides from recombinant cell culture or natural sources. The antibody, PRO polypeptide, or its agonists or antagonists, may be used for preparing a medicament for diagnosing or treating a condition responsive to the antibody, PRO polypeptide, or its agonists or antagonists. This sequence encodes a novel human secreted an
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TGCATGCAGGAAGGTCATTAAAGGTGAAGAGATCAGCGTGGTCCCCAATCGGTGGCTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ATGCCAGCCTGTCCCCCGTCATCCTGGGTGTCCAGGGTGGAAGCCAGTGCCTGTCATGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 recardeaceaacercarraaacercaacaacaacarcaecerceccaarcecree
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ATGCCAGCCTGTCCCCCGTCATCCTGGGTGTCCAGGGTGGAAGCCAGTGCCTGTCATGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         New antibody useful for identifying PRO polypeptides, for affinity purification of PRO polypeptides, and for preparing a medicament for diagnosing or treating conditions responsive to the antibody or PRO
                                                                                                                                                                                                                                                                                                                                                                        Ρ.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length 2598;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Э;
                                                                                                                                                                                                                                                                                                                                                                        Godowski
                                                                                  secreted and transmembrane protein PRO4342 cDNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    BP; 687 A; 590 C; 648 G; 673 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Indels
                                                                                                                Human; secreted and transmembrane protein; PRO; antibody
pharmaceutical; diagnostic; biosensor; bioreactor; gene;
                                                                                                                                                                                                                                                                                                                                                                        Goddard A,
Wood WI;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 2514.2;
Pred. No. 0;
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                        Ã,Ÿ
                                                                                                                                                                                                                                                                                                                                                                          Gerritsen N
Watanabe (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Disclosure; Fig 151; 345pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      transmembrane PRO polypeptide
                                                                                                                                                                                                                                                                        01-MAY-2002; 2002US-00063515.
                                                                                                                                                                                                                                                                                                      06-DEC-2001; 2001US-00006867
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      98.1%;
llarity 99.6%;
Conservative
                                               (first entry)
                                                                                                                                                                                                                                                                                                                                                                        E,
AL,
                                                                                                                                                                                                                                                                                                                                       (GETH ) GENENTECH INC.
                                                                                                                                                                                                                                                                                                                                                                          Filvaroff
                                                                                                                                                                                                                                                                                                                                                                                          Gurney
                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 2003-401702/38.
P-PSDB; ABU90951.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       st Local Similarity
tches 2552; Conserv
                                                                                                                                                                                                     US2003018173-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 2598
                                                                                                                                                                                                                                                                                                                                                                                          Grimaldi JC,
                                                                                                                                                                     Homo sapiens
                                                 11-JUL-2003
                                                                                Novel human
                                                                                                                                                                                                                                                                                                                                                                          ם,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          38
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             98
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            158
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 181
               ACA91239
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
                                                                                                                                                                                                                                                                                                                                                                            Eaton
```

1019 1056 1079 1139 1176

원

ઠે

В

ò

8 8

δ В 8 셤

1236 1259 1296 1319 1379

1416

```
2496 GAAGCAGAGACTCTGTGAGATAATCGATGTTTGTTTTAAGTTGCTCAGTTTTGGTCT 2555
                                                                                                                                                    Human; ss; gene; secreted/transmembrane protein; PRO; tumour; cancer; cytostatic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Godowski PJ;
                                                                                                                                      Human cDNA encoding secreted/transmembrane protein PRO4342.
                               2556 AACTIGITTAIGCAGCAAIAGAIAAAIAATAAIAGCAGAGAAAGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Goddard A,
Wood WI;
                    2520 AACTIGITATGCAGCAATAGATAAATAATATGCAGAGAAAGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gerritsen ME,
Watanabe CK,
                                                                                   BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                    2000US-00709238.
2000WO-US030873.
2000WO-US032678.
2000US-00747259.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2000WO-US034956.
2001WO-US006520.
2001US-00816744.
                                                                                                                                                                                                                                                              99WO-US005528.
99WG-US10133.
99WG-US10133.
99US-00380138.
99US-00380139.
99US-00397342.
99US-00493394.
99WG-00493344.
                                                                                                                                                                                                                                                                                                                                                                                                                22-AUG-2000; 2000US-00644848
24-AUG-2000; 2000WO-US023328
18-SEP-2000; 2000US-00664610
18-SEP-2000; 2000US-00665550
08-NOV-2000; 2000US-00709238.
                                                                                    ACD81616 standard; cDNA; 2598
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2001US-00854208
2001US-00854280
                                                                                                                                                                                                                                                                                                                                                                2000WO-US004341
                                                                                                                                                                                                                                                                                                                                                                                 2000WO-US005841
                                                                                                                                                                                                                                                                                                                                                                                       2000WO-US007532
2000WO-US014042
                                                                                                                                                                                                                                                                                                                                                                                                          2000WO-US015264
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2001WO-US017800
                                                                                                                                                                                                                                                                                                                                                                        2000WO-US005601
                                                                                                                                                                                                                                      01-MAY-2002; 2002US-00063519
                                                                                                                       (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (GETH ) GENENTECH INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Eaton DL, Filvaroff
Grimaldi JC, Gurney
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 2003-447384/42.
P-PSDB; ABO34010.
                                                                                                                                                                                                     US2003009013-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                              10-NOV-2000; 2
01-DEC-2000; 2
20-DEC-2000; 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  28-FEB-2001; 2
22-MAR-2001; 2
10-MAY-2001; 2
                                                                                                                                                                                                                                                                                                                                                                                                 22-MAY-2000;
02-JUN-2000;
22-AUG-2000;
24-AUG-2000;
                                                                                                                                                                                                                                                                                                                                                                        01-MAR-2000;
02-MAR-2000;
21-MAR-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          20-DEC-2000;
                                                                                                                        18-SEP-2003
                                                                                                                                                                                     Homo sapiens
                                                                                                       ACD81616;
                                                                   RESULT 7
ACD81616
                                                                                       셤
                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2339
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2279
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2315
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CAATCTATCTTGGCTCACTCGGTCTGGGGGAAGCTAGCTGCCTATGAGCAGGCCAA 2399
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2460 GAAGCAGAGACTCTGTGAGATAATCGATGTTTGTTGTTTTAAGTTGCTCAGTTTTGGTCT 2519
                                                                                                                                                                                                                                                                                                                       1979
                                                                                                                                                                                                                                                                                                                                        2016
                                                                                                                                                                                                                                                                                                                                                          2039
                                                                                                                                                                                                                                                                                                                                                                                             2099
                                                                                                                                                                                                                                                                                                                                                                                                              2136
                                                                                                                                                                                                                                                                                                                                                                                                                               2159
                                                                                                                                                                                                                                                                                                                                                                                                                                                2196
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2197 AAAAIGAICCCTGTCTCCTCGTGTTTACATTCTGTGTGTGTCCCCTCCCCACAATGTACCA 2256
                                                                                                                                                                             1739
                                                                                                                                                                                                                                                           TTGTATGAAAAGGAGGAGACACAGAGACAGAGGAGACGCGGGGAAGACTATGTAAAGATG 1919
                                                                                                                                                                                                                                                                                              1499
                                                                   CACTGAGGAGGAGGCTGTGCTGAGTTTGTGTGGCTGGAATCTCTGGGTAAGGAACTTAAA 1619
                                                                                                                          1656
                                                                                                                                          1679
                                                                                                                                                   CATCCTTCTTGGAATCTCAGTCTGTGAGTTTATTTGGAGATAAGGTCTCTGCAGATGTAG 1799
                                                                                                                                                                                                                                                   1859
                                            1477 GAGCAGACATCATCTCTGATTGTCCTCAGCCTCCACTTCCCCAGAGTAAATTCAAATTGA 1536
      1980 TCAGAAGCTTGGAAGAAGGCAAAGAAATTCTTCCCTAGAGGCTTTAGAGGGATAACGGC
                                                                                                                                                                                                                                                                                                                                                                                            TCTGCTGAAACCTTAATCTCAGACTTCCAGCCTCCTGAACGAAGAAGAATAAATTTCGG
                                                                                                                                                                                                                                                                                                                                                                                                                               CTGTTTTAAGCCACCAAGGATAATTGGTTACAGCAGCTCTAGGAAACTAATACAGCTGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                         2137 CTGTTTTAAGCCACCACGAGGATAATTGGTTACAGCAGCTCTAGGAAACTAATACAGCTGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ADADATCCCTGTCTCCTCGTGTTTACATTCTGTGTGTGTCCCCTCCCACAATGTACCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAGTTGTCTTTGTGACCCCAATAGAATATGGCAGAAGTGATGGCATGCCACTTCCAAGATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2316 AGGITATAAAAAGACACTGCAGCITCTACITGAGCCCTCTCTCTCTGCCACCCACCGCCCC
                                                                                                                                                                                                                                                                                                                                                                  2017 TCAGAAGCTTGGAAGAGGGCAAAGAAGAATCTTCCCTAGAGGGTTTAGAGGGATAACGGC
                                                                                                                                                                                                                                                                                                                                                                                                     ATTGGATCCAGTCTCTAAGAAGGCTGCTGTACTGGTTGAATTGTGTCCCCCTCAAATTCA
                                                                                                                                                                                                                        TTAGTTAAGACAAGGTCATGCTGGATGAAGGTAGACCTAAATTCAATATGACTGGTTTCC
                                                                                                                                                                                                                                                                                                                       AAGGCAGAGATTTTGCAGCCACAAGCTAAGAAACACCCAAGGATTGTGGCAACCA
                                                                                                                                          1620 GAACAAAAATCATCTGGTAATTCTTTCCTAGAAGGATCACAGCCCCTGGGATTCCAAGGC
                                 1440 GAGCAGACATCATCTCGATTGTCCTCAGCCTCCAATTCCCCGGAGTAAATTCAAATTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2220
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2257
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2280
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2340
                                                                                                                                                                                                                                                                                                                                            1957
                                                                                                                                                                                                                                                                                                                                                                                                2040
                                                                                                                                                                                                                                                                                                                                                                                                                 2077
                                                                                                                                                                                                                                                                                                                                                                                                                                   2100
                                                                                                                                                                                                                                                                                                          1897
                                                                                                                                                                                                                                                                                                                            1920
                                                                                                                                                                1657
                                                                                                                                                                                 1680
                                                                                                                                                                                                  1717
                                                                                                                                                                                                                    1740
                                                                                                                                                                                                                                    1777
                                                                                                                                                                                                                                                      1800
                                                                                                                                                                                                                                                                      1837
                                                                                                                                                                                                                                                                                         1860
                                                                                                            1560
                     1417
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                             ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                               중
음
당
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ठे है ठे
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                   දු දු
                                                                                                                                                                                                                                                                                                                      ठ व ठ
                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                             8
                                                                                                                                                                                                                                                δ
                                                                                                                                                                                                                                                                    g
                                                                                                                                                             g
                                                                                                                                                                                              g
                                                                                                                                                                                                                                셤
                                                                                        원
                                                                                                            ઠે
                                                                                                                          셤
                                                                                                                                            ò
                                                                                                                                                                             Š
                                                                                                                                                                                                                   ò
                      g
                                      ò
                                                     셤
                                                                        ò
```

Disclosure, Fig 151, 223pp; English

New isolated antibody specifically binding a PRO polypeptide, useful for the preparation of a medicament for treating disorders with the aberrant expression or activity of the PRO polypeptide, such as tumor conditions and cancer.

The invention relates to an antibody that binds to a secreted or transmembrane protein designated PRO1446 appearing as ABO33941. The protein is one of 84 PRO polypeptides which (along with their encoding nucleic acids) are disclosed in the specification. The methods and compositions of the present invention are useful for the preparation of amedicament for the treatment of disorders associated with the aberrant expression or activity of the PRO polypeptide, such as tumour conditions and cancer. They can also be used to generate transgenic or knockout animals useful in the development and screening of therapeutically useful reagents. The PRO polypeptides and encoding nucleic acids can be used as molecular weight markers for protein electrophoresis, chromosome identification and tissue typing. The antibodies may be used in various diagnostic, competitive binding and/or immunoprecipitation assays. The present sequence encodes a PRO polypeptide

Sequence 2598 BP; 687 A; 590 C; 648 G; 673 T; 0 U; 0 Other;

셤 ሯ 셤 ઠે ద δ g 8 ద ઠે 8 δ 셤 ઠે

ઠે

TGAAGGACTCGGCATTGAAGGTGCTTTATCTGCATAATAACCAGCTTCTAGCTGGAGGGC 120 rgaaggacrcegcarrgaaggrgcrrrarcrccaraaraaccagcrrcragcrggaggg 157 TGCATGCAGGGAAGGTCATTAAAGGTGAAGAGATCAGCGTGGTCCCCAATCGGTGGCTGG 180 TGCATGCAGGGAAGGTCATTAAAGGTGAAGAGATCAGCGTGGTCCCCAATCGGTGGTGG 217 ATGCCAGCCTGTCCCCCGTCATCCTGGGTGTCCAGGGTGGAAGCCAGTGCCTGTCATGTG 240 ATGCCAGCCTGTCCCCCGTCATCCTGGGTGTCCAGGGTGGAAGCCAGTGCCTGTCATGTG 277 GGGTGGGGCAGGAGCCGACTCTAACACTAGAGCCAGTGAACATCATGGAGCTCTATCTTG 300 GGGTGGGCGAGGAGCCGACTCTAACACTAGAGCCAGTGAACATCATGGAGCTCTATCTTG 337 GTGCCAAGGAATCCAAGAGCTTCACCTTCTACCGGCGGGACATGGGGCTCACCTCCAGCT 360 GIGCCAAGGAATCCAAGAGCTTCACCTTCTACCGGCGGGACATGGGGCTCACCTCCAGCT 397 TCGAGTCGGCTGCCTACCCGGGCTGGTTCCTGTGCACGGTGCCTGAAGCCGATCAGCCTG 420 TCGAGTCGGCTGCCTACCCGGGCTGGTTCCTGTGCACGCTGAAGCCGATCAGCCTG 457 TCAGACTCACCCAGCTTCCCGAGAATGGTGGCTGGAATGCCCCCATCACAGACTTCTACT 480 517 540 576 GTGAGGGGTGAGTGGAGGAGACCCATGGCGGACAATCACTCTTTCTGCTCTCAGGACCCC 600 636 CAGGICIGACITAGIGGGCACCIGACCACITIGICITCIGGIICCCAGIIIIGCAIAAAII 660 CACGTCTGACTTAGTGGGCACCTGACCACTTTGTCTTCTGGTTCCCCAGTTTGGATAAATT 696 9 97 38 AGGGGAGTCTACACCCTGTGGAGCTCAAGATGGTCCTGAGTGGGGCGCTGTGCTTCCGAA 518 TCCAGCAGTGTGACTAGGCAACGTG-CCCCCCAGAACTCCCTGGGCAGAGCCAGCTCGG TCAGACTCACCCAGCTTCCCGAGAATGGTGGAATGCCCCCATCACAGACTTCTACT TCCAGCAGTGTGACTAGGGCAACGTGCCCCCCAGAACTCCCTGGGCAGAGCCAGCTCGG **AGGGGAGTCTACACCCTGTGGAGCTCAAGATGGTCCTGAGTGGGGCGCTGTGCTTCCGAA** Gaps 3; DB 8; Length 2598; 8; Indels Score 2514.2; Pred. No. 0; 0; Mismatches Query Match 98.1%; Best Local Similarity 99.6%; Matches 2552; Conservative 637 158 218 241 301 577 98 181 278 338 361 398 421 458 541 61 121 481 601

8 & 8

ò 요

1 CTGAGATTTGGAGCTCAGCGTCCTCCCCCACTGGATGGTGCTACTGCTGTGGAAC 72	1 CTTGTAAAAACCATGTGGGGTAAACTGGGAATAACATGAAAAGATTTCTGTGGGGGGGG	1 GTGGGGGGGTGCTGGGAATCATTC 	1 CCGCAGGCCAACCCATCCCCAGTTGAGCCTTATAGGGTCAGTAGCTCTCCACATGAAGTC 90	SAGGGAGGTGGTCATAGAGTCAGGGATCTATGGCCCT 96	CCAGCCCACCCCTTCCTTT-ATCCTGCCACTGTCATATGCTACCTTTCCTATC 10	0 TCTTCCCTCATCATCTTGTTGGGCATGAGGAGGTGGTG	O AGCTCAGAAGATAAAGATAAGTAGGGTATGCTGATCCTCTTT	O ATCAAAATCCCAGATGCTGGTCTCTTATTCCCATGAAAAAG 	O GACCTACTTACAAAGTGGCATATATTGCAATTTATTTTAATTAA	0 7 4 — 4	0 TGGCAGTATAGGTGATTTTTCTTTTAATTCTGTTAATTTTATCTGTATTTCCTAATTTTTC 13	O TACAATGAAGATGAATTCCTTGTATAAAAATAAGAAAAGAAATTAATCTTGAGGTAAGCA 14	O GAGCAGACATCATCTCTGATTGTCCTCAGCCTCCAATTCCCCAGAGG	O ATCGAGCTCTGCTGCTTGGTTGTTGTAGTGATCAGGAAACAGATCTCAGCAAAGC 15	O CACTGAGGAGGCTGTGCTGAGTTTGTGTGGCTGGAATCTCTGGGTAAGGAACTTAAA 161 	20 GAACAAAAATCATCTGGTAATTCTTTCCTAGAAGGATCACAGCCCCTGGGATTCCAAGGC 1679 	ATTGGATCCAGTCTCTAAGAAGGCTGCTACTGGTTGAATTGTGTCCCCCTCAAATTCA	
99	72	78:	84	90	96 ·	102	108	114				138	144	150		162	168	
\$ B	දු පු	g 8	දු පු	& g	충 음	දු දු	<b>상</b> 원	දු පු	දු පු	දු පු	දි දි	දු පු	중 음	8 8	상 음	\$ A	\$ 5	ì

US2003018183-A1

```
2279
                                                                                                                                                                                                                                                                                                                                                                                                                               2315
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2375
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2435
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2459
                                                                                                                                                                                                                                                                                                                                                                            2256
                                                                                                                                                                                                                       2076
                                                                                                                                                                                                                                                2099
                                                                                                                                                                                                                                                                                                   2159
                                                                                                                                                                                                                                                                                                                           2196
                                                                                                                                                                                                                                                                                                                                                                                                                                                        2339
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CAATCTATCTTGGCTCACTCGCTCTGGGGGAAGCTAGCTGCCATGCTATGAGCAGGCCTA 2399
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GAAGCAGAGACTCTGTGAGATAATCGATGTTTGTTTTTAAGTTGCTCAGTTTTGGTCT 2555
                                                                                                                  1956
                                                                                                                                            1979
                                                                                                                                                                     2016
                                                                                                                                                                                              2039
                                                                                                                                                                                                                                                                         2136
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TAAAGAGACTTACGTGGTAAAAAATGAAGTCTCCTGCCCACAGCCACATTAGTGAACCTA
2077 TCTGCTGAAACCTTAATCTCAGACTTCCAGCCTCCTGAACGAAGAAGAATAAATTTCGG
                                                                                                                                                                                                                                                                                                                      CTGTTTTAAGCCACCAAGGATAATTGGTTACAGCAGCTCTAGGAAACTAATACAGCTGCT
                                                                                                                                                                                                                                                                                                                                                                         AAAATGATCCCTGTCTCCTCGTTTTACATTCTGTGTGTCCCCCTCCCACAATGTACCA
                                                                                                                                                                                                                                                                                                                                                                                                                             AAGTTGTCTTTGTGA-CCAATAGAATATGGCAGAAGTGATGGCATGCCACTTCCAAGATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                        AGGITATAAAAGACACIGCAGCITICTACTIGAGCCCTCTCTCTCTGCCACCCCCCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CAATCTATCTTGGCTCACTCGCTCTGGGGGAAGCTAGCTGCCATGCTATGAGCAGGCTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TAAAGAGACTTACGTGGTAAAAATGAAGTCTCCTGCCCACAGCCACATTAGTGAACCTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GAAGCAGAGACTCTGTGAGATAATCGATGTTTGTTTTTAAGTTGCTCAGTTTTGGTCT
                                                                1837 TTAGTTAAGACAAGGTCATGCTGGATGAAGGTAGACCTAAATTCAATATGACTGGTTTCC
                                                                                          1897 TTGTATGAAAAGGAGAGACACACAGAGACAGAGAGACGCGGGGAAGACTATGTAAAGATG
                                                                                                                                            AAGGCAGAGATCGGGAGTTTTGCCAGCCACAAGCTAAGAAACACCCAAGGATTGTGGCAACCA
                                                                                                                                                                   1957 AAGGCAGAGATCGGAGTTTTGCAGCCACAAGCTAAGAAACACCAAGGATTGTGGCAACCA
                                                                                                                                                                                              1980 TCAGAAGCTTGGAAGAGGCAAAGAAGAATTCTTCCCTAGAGGCTTTAGAGGGATAACGGC
                                                                                                                                                                                                           AAGTTGTCTTTGTGACCCAATAGAATATGGCAGAAGTGATGGCATGCCACTTCCAAGATT
                                                                                                                                                                                                                                                                                                   CTGTTTTAAGCCACCAAGGATAATTGGTTACAGCAGCTCTAGGAAACTAATACAGCTGCT
                                                                                                                                                                                                                                                                                                                                                     TTAGTTAAGACAAGGTCATGCTGGATGAAGGTAGACCTAAATTCAATATGACTGGTTTCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AACTTGTTATGCAGCAATAGATAATAATATGCAGAGAAAGAG 2562
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2520
                                                                                                                                              1920
                                                                                                                                                                                                                                                                                                                            2137
                                                                                                                                                                                                                                                                                                                                                                                2197
                                                                                                                                                                                                                                                                                                                                                                                                         2220
                                                                                                                                                                                                                                                                                                                                                                                                                                   2257
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2316
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2340
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2376
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2436
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2460
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2496
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2556
                                                                                             1860
                                                                                                                                                                                                                                                  2040
                                                                                                                                                                                                                                                                                                                                                                                                                                                           2280
                                         1800
                                                                                                                                                                                                                                                                                                     2100
                                                                                                                                                                                                                                                                                                                                                       2160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                a
                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                유
                                                                                           ò
                                                                                                               g
                                                                                                                                            ò
                                                                                                                                                                   유
                                                                                                                                                                                               ठ
                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                  ઠે
                                                                                                                                                                                                                                                                      쉱
                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                          各
                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                        8
                                           ò
```

```
Human; secreted and transmembrane polypeptide; gene; ss. chromosome mapping; gene mapping; transgenic animal; knockout animal; therapeutic agent screening; chromosome identification; tissue typing;
                                                                                                  Novel human secreted and transmembrane protein PRO4342 cDNA.
                        ACA60438 standard; cDNA; 2598
                                                                            (first entry)
                                                                           11-JUN-2003
                                                  ACA60438
          RESULT
```

Homo sapiens gene therapy

```
The invention describes novel isolated PRO polypeptides. The PRO polypeptides or anti-PRO antibodies are useful in preparing a medicament contracting a condition that is responsive to the PRO polypeptide or antibody. The PRO nucleotide sequences may be used as hybridisation probes in chromosome and gene mapping, or in generating antisense RNA and probes in chromosome and gene mapping, or in generating antisense RNA and company to identify other proteins or molecules involved in binding reaction, to generate transgenic animals or knockout animals, which in the casents, for chromosome identification, and tissue typing. The PRO polypeptides and nucleic acid molecules are also useful in gene PRO polypeptides and nucleic acid molecules are also useful in gene PRO polypeptides and nucleic acid molecules are also useful in gene PRO polypeptides and nucleic acid molecules are also useful in gene PRO polypeptides and nucleic acid molecules are also useful in gene PRO, or for the affinity purification of PRO from recombinant cell PRO, or for the affinity purification of PRO from recombinant cell PRO, or for the affinity purification of PRO from recombinant cell purposes or meantain sources. This sequence encodes a novel human secreted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     277
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          397
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    157
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              217
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               337
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       97
                                                                                                                                                                                                                                                                                           New secreted and transmembrane PRO polypeptides and nucleic acid molecules encoding the polypeptides, useful in gene therapy or preparing a medicament for treating a condition that is responsive to the PRO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GTGCCAAGGAATCCAAGAGCTTCACCTTCTACCGGCGGGACATGGGGCTCACCTCCAGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              218 ATGCCAGCCTGTCCCCCGTCATCCTGGGTGTCCAGGGTGGAAGCCAGTGCCTGTCATGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           241 GGGTGGGGCAGGAGCCGACTCTAACACTAGAGCCAGTGAACATCATGGAGCTCTATCTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  278 gegregegecageaecceacreraacacragaeccagreaacarcaregaecrerarcrre
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TOGAGTOGGCTGCCTACCOGGCCTGGTTCCTGTGCACGCTGCAGCCCGATCAGCCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       38 AddedaGrcracacccrdredaGcrcaAdarGGrccrdAGGGGGGGGGCGCGGGGCTrccGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  98 IGAAGGACTCGGCATTGAAGGTGCTTTATCTGCATAATAACCAGCTTCTAGCTGGAGGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TGCATGCAGGGAAGGTCATTAAAGGTGAAGAGATCAGCGTGGTCCCCAATCGGTGGCTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        338 graccaaggaarccaagacrrcaccrrcraccaggagacaraggagacrcaccrcagg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 AGGGGAGTCTACACCCTGTGGAGCTCAAGATGGTCCTGAGTGGGGCGCTGTGCTTCCGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TGAAGGACTCGGCATTGAAGGTGCTTTATCTGCATAATAACCAGCTTCTAGCTGGAGGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   181 ATGCCAGCCTGTCCCCGTCATCCTGGGTGTCCAGGGTGGAAGCCAGTGCCTGTCATGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                Εζ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 2598;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 3;
                                                                                                                                                                                  Godowski
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 2598 BP; 687 A; 590 C; 648 G; 673 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8; Indels
                                                                                                                                                                                  Goddard A,
Wood WI;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DB 8;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 2514.2;
Pred. No. 0;
0; Mismatches
                                                                                                                                                                                  Gerritsen ME,
Watanabe CK,
                                                                                                                                                                                                                                                                                                                                                                                             Disclosure; Fig 151; 409pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        and transmembrane PRO poypeptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                98.1%;
99.6%;
                                                                       01-MAY-2002; 2002US-00063512
                                                                                                           06-DEC-2001; 2001US-0006867
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Best Local Similairs, Matches 2552; Conservative
                                                                                                                                                                                  Eaton DL, Filvaroff E,
Grimaldi JC, Gurney AL,
                                                                                                                                                                                                                                                                                                                                                         polypeptide or antibody.
                                                                                                                                              (GETH ) GENENTECH INC
                                                                                                                                                                                                                                          2003-330984/31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Local Similarity
                                                                                                                                                                                                                                                                P-PSDB; ABU72027
                                   23-JAN-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           임
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8
```

ij,

1510	
B & B & B & B & B & B & B & B & B & B &	
······································	-
421 TORGACTICACCACTTCCCGGANATCCTCCGGANATCCCCCCCCCCCC	

```
The invention relates to an antibody that binds to a polypeptide with a fully defined sequence given in the specification. The methods and compositions (containing antibodies that specifically bind a PRO compositions (containing antibodies that specifically bind a PRO colypeptide) of the present invention are useful for the preparation of a medicament for the treatment of disorders associated with the aberrant can cancer. They can also be used to generate transgenic or knockout animals useful in the development and screening of therapeutically useful reagents. The PRO polypeptides and encoding nucleic acids can be used as molecular weight markers for protein electrophoresis, chromosome contification and tissue typing. The PRO polypeptides are useful to induce angiogenesis e.g wound healing; in the treatment of sports-related joint problems, articular cartilage defects, osteoarthritis or rheumatoid arthritis; diabetes; hyperinsulinaemia and hypoinsulinaemia. The arthritis diabetes; hyperinsulinaemia and hypoinsulinaemia can antibodies may be used in various diagnostic, competitive binding and/or immunoprecipitation assays. The present sequence represents a CDNA encoding a PRO polypeptide of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CTTCTAAAAACCATGTGGGGTAAACTGGGAATAACATGAAAAGATTTCTGTGGGGGGTGGG 780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   croadarridgadericadrecaedreciececeaerdaargereciaerderefiedaae 756
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CACGICTGACTTAGTGGGCACCTGACCACTTTGTCTTCTCGGTTCCCAGTTTGGATAAATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CTGAGATTTGGAGCTCAGTCCAGGGTCCTCCCCCACTGGATGGTGCTACTGCTGGAAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GGGTGGGGCAGGGCGACTCTAACACTAGAGCCAGTGAACATCATGGAGCTCTATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TCGAGTCGGCTGCCTACCCGGGCTGGTTCCTGTGCACGGTGCCTGAAGCCGATCAGCCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                rcadacticaccidacircecaadatagradecradaaracececarcacaacriciacr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TCCAGCAGTGTGACTAGGGCAACGTGCCCCCCCAGAACTCCCTGGGCAGAGCCCAGCTCGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GTGAGGGGTGAGTGGAGGAGCCCATGGCGGACAATCACTCTTTCTGCTCTCAGGACCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 AGGGGAGTCTACACCCTGTGGAGCTCAAGATGGTCCTGAGTGGGGCGCTGTGCTTCCGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TGAAGGACTCGGCATTGAAGGTGCTTTATCTGCATAATAACCAGCTTCTAGCTGGAGGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            98 reaaccacciccacarreaacciccrirarcrecaraaraaccaccriraacaccac
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TGCATGCAGGGAAGGTCATTAAAGGTGAAGAAGATCAGCGTGGTCCCCAATCGGTGGCTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     158 recarecadedadegrearradadegreadadegreaceregreeceaaregreeg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ATGCCAGCCTGTCCCCGTCATCCTGGGTGTCCAGGGTGGAAGCCAGTGCCTGTCATGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GTGCCAAGGAATCCAAGAGCTTCACCTTCTACCGGCGGGACATGGGGGCTCACCTCCAGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TCAGACTCACCCAGCTTCCCGAGAATGGTGGCTGGAATGCCCCCATCACAGACTTCTACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CAGGTCTGACTTAGTGGGCACCTGACCACTTTGTCTTCTGGTTCCCAGTTTGCATAAATT
                                                                                                                                                                                                                                                                                                                                                           Sequence 2598 BP; 687 A; 590 C; 648 G; 673 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                       Best Local Similarity 99.6 Matches 2552; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             518
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           697
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      38
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      218
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              278
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           338
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  458
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      577
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        398
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     121
                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   à
                硆
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ₽
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            New isolated antibody specifically binding a PRO polypeptide, useful for the preparation of a medicament for treating disorders with the aberrant expression or activity of the PRO polypeptide, such as tumor conditions and cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Godowski PJ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Goddard A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Wood WI;
                                                                                                                                                                         cDNA encoding human secreted polypeptide PRO4342
                                                                                                                                                                                                             Human; 88; gene; gene therapy; tumour; cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Example 4; Page 220-221; 406pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gerritsen ME,
Watanabe CK,
                                                          ACA58885 standard; cDNA; 2598 BP.
                                                                                                                                                                                                                                                                                                                                                                                                         98KR-00062142.
99W0-00311832.
99W0-00311832.
99W5-0031137.
99US-00380137.
99US-00380138.
99US-00380142.
99US-00403297.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2000WO-US005601.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2000WO-US005841.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          02-JUN-2000; 2000WO-US015264.
22-AUG-2000; 2000US-00644848.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                18-SEP-2000; 2000US-00664610.
18-SEP-2000; 2000US-00665350.
08-NOV-2000; 2000US-00709238.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               20-DEC-2000; 2000WO-US034956.
28-FEB-2001; 2001WO-US006520.
22-MAR-2001; 2001US-00854208.
10-MAY-2001; 2001US-00854208.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            10-MAY-2001; 2001US-00854280
30-MAY-2001; 2001US-00870574
01-JUN-2001; 2001WO-US017800
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2000WO-US004341
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      22-MAY-2000; 2000WO-US014042
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              24-AUG-2000; 2000WO-US023328
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2000WO-US030873
                                                                                                                                                                                                                                                                                                                                                                         2002US-00063616
                                                                                                                                   (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Grimaldi JC, Gurney AL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Filvaroff E,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SU-OW66
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GETH ) GENENTECH INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 2003-330485/31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    P-PSDB; ABU71581
                                                                                                                                                                                                                                                                                            US2003013855-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             01-MAR-2000; 2
02-MAR-2000; 2
21-MAR-2000; 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        29-JUN-2001;
18-JUN-2001;
06-DEC-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      25-AUG-1999;
25-AUG-1999;
15-SEP-1999;
18-OCT-1999;
12-NOV-1999;
30-DEC-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         10-NOV-2000;
01-DEC-2000;
                                                                                                                                                                                                                                                                                                                                                                         03-MAY-2002;
                                                                                                                                     10-JUN-2003
                                                                                                                                                                                                                                                                                                                                  16-JAN-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DĽ,
                                                                                                  ACA58885;
```

300

337 360 397 420 457 480 517

120

9 97

Gaps

<u>ب</u>

8; Indels

Length 2598;

DB 8;

98.1%; Score 2514.2; 99.6%; Pred. No. 0; 0; Mismatches 157

180 217 240 277 540 576 900 99 969

636

Eaton

1817   TINGITHAGACAGGGCACAGGGGGGGGGGGGGGGGGGTTTCC 1896	RESULT 10 ACA64061 ID ACA64061 standard; CDNA; 2598 BP. XX AC ACA64061; XX AC ACA64061; XX DT 16-JUN-2003 (first entry) XX DY
	1500 ATCCAGCTCTCTCGTTGGTTGTAGTAGTGGATCAGGAAACAGATCTCAGCAAACC 1559 1537 AICGAGCTCTGCTCTCGTTGGTTGTTGTGTGTTGTTGTGTGAAACAGATCTCAGCAAAGC 1596 1560 CACTGAGGAGGAGCTCTTGTTGTGTGGTTGGTTAGTAGTCTTGGGTAAGGATCTCAGCAAAGC 1596 1570 CACTGAGGAGGAGGACTTTGTTTGTTGTGGCTGGAATCTCTGGGTAAGGAACTTAAA 1619 1620 GAACAAAAATCATCTGTAATTTTTTTTTTTTTTTTTTTT

us-09-617-720a-1.rng

```
1019
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              rescecaéceceaececerrecerranarecreceaererararecratarecraterateraterate 1056
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1079
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1116
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AGCTCAGAAGATAAAAGATAAGGTATGCTGATCCTCTTTTAAAAACCCAAGATACA 1139
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ATCAAAATCCCAGATGCTGGTCTCTATTCCCATGAAAAAGTGCTCATGACATATTGAGAA 1199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    517
                                                                                                                                                                                                                                                                                                                                                                                                                                      540
                                 180
                                                                                                 240
                                                                                                                                                                   300
                                                                                                                                                                                                                                   360
                                                                                                                                                                                                                                                                                                      420
                                                                                                                                                                                                                                                                                                                                                                      480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      576
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        989
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          969
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           816
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         876
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             936
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            960
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             966
                                                                                                                                  277
                                                                                                                                                                                                  337
                                                                                                                                                                                                                                                                    397
                                                                                                                                                                                                                                                                                                                                   457
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        756
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TCTTCCCTCATCATCTTGTTGTGGGCATGAGGAGGTGGTGATGTCAGAAGAAATGGCTCG
                                                                                                                  TCGAGTCGGCTGCCTACCCGGGCTGGTTCCTGTGCACGGGGCCTGAAGCCGATCAGCCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TCTTCCCTCATCATCTTGTTGTGGCCATGAGGAGGTGGTGATGTCAGAAGAAATGGTTCG
TGAAGGACTCGGCATTGAAGGTGCTTTATCTGCATAATAACCAGCTTCTAGCTGGAGGGC
                                                ATGCCAGCCTGTCCCCGTCATCCTGGGTGTCCAGGGTGGAAGCCAGTGCCTGTCATGTG
                                                                                                                                                                                      GGGTGGGCCAGGAGCCGACTCTAACACTAGAGCCAGTGAACATCATGGGGGCTCTATCTTG
                                                                                                                                                                                                                                  GTGCCAAGGAATCCAAGAGCTTCACCTTCTACCGGCGGGACATGGGGGCTCACCTCCAGCT
                                                                                                                                                                                                                                                                                                                                                                    TCAGACTCACCCAGCTTCCCGAGAATGGTGGTCGGAATGCCCCCATCACAGACTTCTACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TCCAGCAGTGTGACTAGGGCAACGTG-CCCCCAGAACTCCCTGGGCAGAGCGAGAGCTCGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GTGAGGGGTGAGTGGAGGAGACCCATGGCGGACAATCACTCTTTCTGCTCTCAGGACCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CAGGICTGACTTAGTGGGCACCTGACCACTTTGICTTCTGGTTCCCAGTTTGCATAAATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      cacercreactraeresecaccreaccactrrercreserreccaerrasarr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CTGAGATTTGGAGCTCAGGGTCCTCCCCCACTGGATGGTGCTACTGCTGGAAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CTGAGATTTGGAGCTCCAGTCCACGCTCCCCCCACTGGATGGTGCTACTGCTGGGAAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CTTGTAAAAACCATGTGGGGTAAACTGGGAATAACATGAAAAAAATTTCTGTGGGGGTGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Greeceagregregaarcarrecrecriserraaregraacreacaagrerraecereagee
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CCGCAGGCCAACCCAATTCAGCCTTATAGGGTCAGTAGCTCTCCCACATGAAGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ccecaegccaacccarcccaerreagccrraragegrcagraecrcrcacargaagrc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TGGCCCAGCCCCACCCCTTCCCTTT-ATCCTGCCACTGTCATATGCTACCTTTCCTATC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                agcrcagaagaraaagaraagraaggrargcrgarccrcrrrraaaaacccaagaraca
                                 TGCATGCAGGGAAGGTCATTAAAGGTGAAGAATCAGCGTGGTCCCCCAATCGGTGGCTGG
                                                                                                                                                                     GGGTGGGGCAGGAGCCGACTCTAACACTAGAGCCAGTGAACATCATGGAGCTCTATCTTG
                                                                                                                                                                                                                                                        GTGCCAAGGAATCCAAGAGCTTCACCTTCTACCGGCGGGACATGGGGCTCACCTCCAGCT
                                                                                                                                                                                                                                                                                                      TCGAGTCGGCTGCCTACCCGGGCTGGTTCCTGTGCACGGTGCCTGAAGCCGATCAGCCTG
                                                                                                                                                                                                                                                                                                                                                                                                       rcadacrcaccaderrcedadaregregeregaareceeeareacagaerreracr
                                                                                                                                                                                                                                                                                                                                                                                                                                        TCCAGCAGTGTGACTAGGGCAACGTGCCCCCCCAGAACTCCCTGGGCAGAGCCAGCTCGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gradesecrederesacedacearesessacaareacreterererereresesses
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GTGGGGGAGTGCTGGAATCATTCCTGCTTAATGGTAACTGACAAGTGTTACCCTGAGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CTCTCACTCACCACCACTGCAGGAGGGGGGGGTCATAGAGTCAGGGATCTATGGCCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             crercaccaccacrerecadadadadadacarcaradadreadadarerardeceer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        577
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1117
                                                                                                                                                                                                                                                                                                                                                                                                       458
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1057
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1080
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1140
86
                                                                  158
                                                                                                                                    218
                                                                                                                                                                     241
                                                                                                                                                                                                    278
                                                                                                                                                                                                                                                                                                                                                                        421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         518
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          637
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             817
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             877
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                901
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               937
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  961
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1020
                                  121
                                                                                                   181
                                                                                                                                                                                                                                     301
                                                                                                                                                                                                                                                                    338
                                                                                                                                                                                                                                                                                                       361
                                                                                                                                                                                                                                                                                                                                        398
                                                                                                                                                                                                                                                                                                                                                                                                                                        481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            697
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            757
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             781
                                                         셤
                                                                                                                             유
                                                                                                                                                                     ઠે
                                                                                                                                                                                                  g
                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                 유
                                                                                                                                                                                                                                                                                                      δ
                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        임
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                 8
                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The present invention relates to the isolation of novel human PRO polypeptides are secreted and transmembrane proteins. The PRO polypeptides are secreted and transmembrane proteins. The PRO polypeptides and polynucleotides are useful for preparing a medicament useful in the treatment of a condition responsive to anti-PRO antibody. Anti-PRO antibodies are useful in diagnostic assays for PRO, by detecting its expression in specific cells, tissues or serum, and for affinity purification of PRO from recombinant cell culture or natural sources. ACA63986-ACA64069 represent CDNA sequences encoding the human PRO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TGAAGGACTCGGCATTGAAGGTGCTTTATCTGCATAATAACCAGCTTCTAGCTGGAGGGC 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              as
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  97
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           useful
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AGGGGAGTCTACACCCTGTGGAGCTCAAGATGGTCCTGAGTGGGGCGCTGTGCTTCCGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ACA61986-ACA64069 represent cDNA sequences encoding the human PRO polypeptides of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     э
Э
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length 2598;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              isolated secreted transmembrane polypeptide designated PRO,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Godowski
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 2598 BP; 687 A; 590 C; 648 G; 673 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   8; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Goddard A,
Wood WI;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DB 8;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 2514.2;
Pred. No. 0;
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gerritsen ME,
Watanabe CK,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Disclosure, Fig 151; 236pp; English
                                                                                                                                                                                                                                                                 02-JUN-2000; 2000WO-US015264.
22-AUG-2000; 2000WO-US015264.
24-AUG-2000; 2000WO-US015264.
18-SEP-2000; 2000WS-00664610.
18-SEP-2000; 2000WS-00665350.
08-NOV-2000; 2000WS-0066338.
10-DEC-2000; 2000WS-0S03873.
01-DEC-2000; 2000WS-0S03873.
01-DEC-2000; 2000WS-0S03678.
20-DEC-2000; 2000WS-0S03678.
22-MAR-2001; 2001WS-00816744.
10-MAY-2001; 2001WS-00854280.
30-MAY-2001; 2001WS-00854280.
99WO-US005028.
99WS-00311832.
99WS-00380133.
99WS-00380138.
99WS-00380139.
99WS-00397342.
99WS-00403297.
                                                                                                                                                                                                                     2000WO-US005841.
2000WO-US007532.
2000WO-US014042.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         05-JUN-2001; 2011US-00874503.
29-JUN-2001; 2001US-00869599.
18-JUL-2001; 2001US-00908827.
06-DEC-2001; 2001US-00006867.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local Similarity 99.6%;
Matches 2552; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Ŗ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (GETH ) GENENTECH INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Filvaroff
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gurney
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2003-328612/04
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 therapeutic agent
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2003-328612/
P-PSDB; ABU72362
                                                                                                                                                                                    18-FEB-2000;
01-MAR-2000;
02-MAR-2000;
                                                                                                                                                                                                                                   21-MAR-2000;
22-MAY-2000;
02-JUN-2000;
22-AUG-2000;
                                                                  25-AUG-1999;
25-AUG-1999;
25-AUG-1999;
15-SEP-1999;
12-NOV-1999;
30-DEC-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Eaton DL,
Grimaldi JO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       38
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    61
```

중 음

ò

ያ ዓ

6 6 6 6 6

යි යි

요 양

8 8 8 8

8 6 8

8 6 8 6

8 B 8

g

\$ B \$ B \$ B \$

8 & 8

```
2399
                                                                                                                                2459
                                                                                                                                                                 2495
                                                                                                                                                                                                 2519
                                                                                                                                                                                                                                  2555
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human, PRO polypeptide, secreted protein, transmembrane protein, rectal,
lung, stomach, oesophageal; skin; tumour, cancer; cytostatic,
gene therapy, gene, ss.
TAAAGAGACTTACGTGGTAAAAATGAAGTCTCCTGCCCACAGCCACATTAGTGAACCTA
                                                                                                                                                 TAPAGGGACTTACGTGGTAAAAATGAAGTCTCCTGCCCACAGCCACATTAGTGAACTA
                                                                                                                                                                                                                 GAAGCAGAGACTCTGTGAGATAATCGATGTTTGTTTTTAAGTTGCTCAGTTTTGGTCT
                                                                                                                                                                                                 GAAGCAGAGACTCTGTGAGATAATCGATGTTTGTTGTTTTAAGTTGCTCAGTTTTGGTCT
                                                                                                                                                                                                                                                                  AACTTGTTATGCAGCAATAGATAAATAATATGCAGAGAAAGAG 2562
                                                                                                                                                                                                                                                                                    encoding human PRO polypeptide #76
                                                                                                                                                                                                                                                                                                                                                                                  BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   98KR-00062142.
99WO-US005028.
99WO-US01033.
99US-00380137.
99US-00380138.
99US-00397342.
99US-004923944.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2000WO-US004341.
2000WO-US005611.
2000WO-US005841.
2000WO-US014042.
2000WO-US014042.
2000WO-US015564.
2000US-00644848.
2000US-00644848.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2000US-00665350.
2000US-00709238.
2000WO-US030873.
2000WO-US032678.
                                                                                                                                                                                                                                                                                                                                                                                    ACA91325 standard; cDNA; 2598
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2001WO-US006520.
2001US-00816744.
2001US-00854208.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2002US-00063569
                                                                                                                                                                                                                                                                                                                                                                                                                                                     14-JUL-2003 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  25-AUG-1999;
25-AUG-1999;
25-AUG-1999;
15-SEP-1999;
18-OCT-1999;
18-OCT-1999;
10-NOV-1999;
10-MAR-2000;
22-MAR-2000;
22-MAR-2000;
22-MAR-2000;
22-MAR-2000;
22-MAR-2000;
21-MAY-2000;
22-AUG-2000;
22-AUG-2000;
18-SEP-2000;
18-SEP-2000;
18-SEP-2000;
18-SEP-2000;
18-SEP-2000;
10-NOV-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        28-FEB-2001;
22-MAR-2001;
10-MAY-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      02-MAY-2002;
                                                                                                 2376
                                                                                                                                  2400
                                                                                                                                                                  2436
                                                                                                                                                                                                 2460
                                                                                                                                                                                                                                  2496
                                                                                                                                                                                                                                                                  2520
                                                                                                                                                                                                                                                                                                   2556
                                                                                                                                                                                                                                                                                                                                                                                                                   ACA91325;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CDNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Ношо
                                                                                                                                                                                                                                                                                                                                                   ACA91325

ACA913
 & 4
8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1679
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1716
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1739
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1919
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2016
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2039
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2076
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2136
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2219
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2315
                                                                                                                                                                                                                  1439
                                                                                                                                                                                                                                                   1476
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1776
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2099
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2159
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2256
                 IGGCAGTATAGGTGATTTTTTTTTAATTCTGTTAATTTATCTGTATTTCCTAATTTTTC 13.79
                                                                                                                                                                                                                                                                                ATCGAGCTCTGCTCTGGTTGGTTGTAGTGGTGATCAGGAAACAGATCTCAGCAAAGC 1559
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CATCCTTCTTGGAATCTCGGCTGTGAGTTTATTTGGAGATAAGGTCTCTGCAGATGTAG 1799
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     THAGTTAAGACAAGGTCATGCATGAAGGTAGACCTAAATTCAATATGACTGGTTTCC 1896
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1979
                                                                                                                                                                                                               TATTTCTTTATAGAAAAAGTCTGGAAGAGTTTACTTCAATTGTAGCAATGTCAGGGTGG
                                                                                                                                                                  TGGCAGTATAGGTGATTTTTCTTTTAATTCTGTTAATTTATCTGTATTTCTCTAATTTTTC
                                                                                                                                                                                                                                                                                                                                                                                                                      CACTGAGGAGGAGGCTGTGCTGAGTTTGTGTGGCTGGAATCTCTGGGTAAGGAACTTAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                     CACTGAGGAGGTGGCTGAGTTTGTGTGTGGCTGGAATCTCTGGGTAAGGAACTTAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TCAGAAGCTTGGAAGAAGAAGAATTCTTCCCTAGAGGCTTTAGAGGGATAACGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TCTGCTGAAACCTTAATCTCAGACTTCCAGCCTCCTGAACGAAGAAGAATAAATTTCGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAAATGATCCCTGTCTCCTCGTGTTTACATTCTGTGTGTCCCCCTCCCACAATGTACCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAGTTGTCTTTGTGACCCAATAGAATATGGCAGAAGTGATGGCATGCCACTTCCAAGATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAGTIGTCTTTGTGA-CCAATAGAATATGGCAGAAGTGATGGCATGCCACTTCCAAGATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TTAGTTAAGACAAGGTCATGCTGGATGAAGGTAGACCTAAATTCAATATGACTGGTTTCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAGGCAGAGATCGGAGTTTTGCAGCCACAAGCTAAGAAACACCAAGGATTGTGGCAACCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1237
                                                                                  1260
                                                                                                                 1297
                                                                                                                                                   1320
                                                                                                                                                                                1357
                                                                                                                                                                                                                 1380
                                                                                                                                                                                                                                                 1417
                                                                                                                                                                                                                                                                                    1440
                                                                                                                                                                                                                                                                                                                 1477
                                                                                                                                                                                                                                                                                                                                                   1500
                                                                                                                                                                                                                                                                                                                                                                                    1537
                                                                                                                                                                                                                                                                                                                                                                                                                      1560
                                                                                                                                                                                                                                                                                                                                                                                                                                                     1597
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1620
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1657
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1680
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1717
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1740
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1777
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1837
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1860
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1897
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1920
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1957
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1980
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2017
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2040
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2077
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2137
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2197
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2257
                  1200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1800
```

```
1056
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1079
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1139
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1176
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1296
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1379
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1416
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1439
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1476
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1619
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1019
                                                                                                                         636
                                                                                                                                                                       099
                                                                                                                                                                                                                                                                       720
                                                                                                                                                                                                                                                                                                                                                                       780
                                                                                                                                                                                                                                                                                                                                                                                                                    816
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  876
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  936
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                966
                                                                                                                                                                                                                       969
                                                                                                                                                                                                                                                                                                                    756
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TGGCCCAGCCCCACCCCTTCCCTTT-ATCCTGCCACTGTCATATGCTACCTTTCCTATC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TCTTCCCTCATCATCTTGTGTGGGCATGAGGAGGTGGTGATGTCAGAAGAAATGGTTCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AGCTCAGAAGATAAAAGATAAGTAGGGTATGCTGATCCTCTTTTAAAAACCCAAGATAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Arcada Arcconstruction of the Arcada and Arca
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       rescaerarasserearriricririaarricistraarrirarcistarriricciaarriric
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CACTGAGGAGGAGGTGTGTGTGTGTGGGTGGGAATCTCTGGGTAAGGAACTTAAA
                           rccaecaerereactaeceaacere-cccccaeaacrcccreeecaeaecrcee
                                                                                                       CAGGTCTGACTTAGTGGGCACCTGACCACTTGTCTTCTGGTTCCCAGTTTGCATAAATT
                                                                                                                                                                                                                                                                                                                    creagarrregaecreagrecacegrecreeceacregargeracrecrereregaae
                                                                                                                                                                                                                                                                                                                                                                                                                  Gredeceaerecreceaarcarrecrecrearecraacreacaacrecreaece
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CCGCAGGCCAACCCATCCCCCAGTTGAGCCTTATAGGGTCAGTAGCTCTCCACATGAAGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ccecaegccaacccarccccagrreagccrraraeggrcagregcrcrccacardaagrc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CTCTCACTCACCACTGTGCAGGAGGAGGTGGTCATAGAGTCAGGGATCTATGGCCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AGCTCAGAAGATAAAAGATAAGTAGGGTATGCTGATCCTCTTTTAAAAACCCAAGATACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GACCTACTTACAAAGTGGCATATATTGCAATTTATTTTAAATTAAAAGATACCTATTTATA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TATTTCTTTATAGAAAAGTCTGGAAGAGTTTACTTCAATTGTAGCAATGTCAGGGTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TATTICITIATAGAAAAAGICTGGAAGAGITTIACTICAATIGTAGCAATGTCAGGGTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TGGCAGTATAGGTGATTTTTTTTTAATTCTGTTAATTTTATCTGTATTTCCTAATTTTTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TACAATGAAGATGAATTCCTTGTATAAAATTAAGAAAAATTAATCTTGAGGTAAGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GAGCAGACATCATCTCTGATTGTCCTCCAGCCTCCAATTCCCCAGAGTAAATTCAAATTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CTGAGATTTGGAGCTCCAGGGTCCTCCCCCCACTGGATGGTGCTACTGCTGTGGAAC
                                                                                                                                                                                                                                                                                                                                                                         CTTGTAAAAACCATGTGGGGTAAACTGGGAATAACATGAAAAGATTTCTGTGGGGGTGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GTGGGGGAGTGCTGGAATCATTCCTGCTTAATGGTAACTGACAAGTGTTACCCTGAGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ATCGAGCTCTGCTCTGGTTGGTTGTAGTAGTGATCAGGAAACAGATCTCAGCAAAGC
                                                                                                                                                                                                                       637
                                                                                                                         577
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1237
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1260
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1297
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1357
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1380
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1417
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1477
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1560
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  877
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  937
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1020
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1117
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1320
                                                                           541
                                                                                                                                                                            601
                                                                                                                                                                                                                                                                         661
                                                                                                                                                                                                                                                                                                                         697
                                                                                                                                                                                                                                                                                                                                                                       721
                                                                                                                                                                                                                                                                                                                                                                                                                       757
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     817
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     901
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  961
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1057
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1080
                                                                                                                 셤
                                                                                                                                                                       à
                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                       à
                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     \delta
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                8
                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The present invention relates to the isolation of novel human PRO polypeptides, and the polynucleotide sequences encoding them. The PRO polypeptides are secreted and transmembrane proteins. The PRO polypeptide and polynucleotide sequences are useful for the diagnosis, prevention and treatment of rectal, lung, stomach, oesophageal or skin tumours, and/or cancers. The PRO polypeptides are also useful as molecular weight markers. The PRO polynucleotide sequences are useful for chromosome identification, hybridisation probes, and for screening libraries of human cDNA, genomic DNA or mRNA. They may also be used in gene therapy, particularly for replacing a defective gene. ACA91250-ACA91313 represent CDNA sequences encoding the human PRO polypeptides of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     157
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  217
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  277
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                337
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                397
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              457
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            517
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          9
                                                                                                                                                                                                                                                                                                                                                                                              New isolated, secreted and transmembrane PRO polypeptide, useful for the diagnosis, prevention and treatment of rectal, lung, stomach, esophageal or skin cancers.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  97
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TGCATGCAGGGAAGGTCATTAAAGGTGAAGAGATCAGCGTGGTCCCCAATCGGTGGCTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GGGTGGGGCAGGAGCCGACTCTAACACTAGAGCCAGTGAACATCATGGAGCTCTATCTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GTGCCAAGGAATCCAAGAGCTTCACCTTCTACCGGCGGGACATGGGGCTCACCTCCAGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TCGAGTCGGCTGCCTACCCGGGCTGGTTCCTGTGCACGTGCCTGAAGCCGATCAGCCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TCCAGCAGTGTGACTAGGGCAACGTGCCCCCCCAGAACTCCCTGGGCAGAGCCAGGCTCGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Aggadadrenacacecrigicaagereaagargereergagraggegegegereerreegaa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ATGCCAGCCTGTCCCCCGTCATCCTGGGTGTCCAGGGTGGAAGCCAGTGCCTGTCATGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GGGTGGGGCAGGAGCCGACTCTAACACTAGAGCCAGTGAACATCATGGAGCTCTATCTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GTGCCAAGGAATCCAAGAGCTTCACCTTCTACCGGCGGACATGGGGGCTCACCTCCAGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TCGAGTCGGCTGCCTACCCGGGCTGGTTCCTGTGCACGGTGCCTGAAGCCGATCAGCCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TCAGACTCACCCAGCTTCCCGAGAATGGTGGCTGGAATGCCCCCATCACAGACTTCTACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TGAAGGACTCGGCATTGAAGGTGCTTTATCTGCATAATAACCAGCTTCTAGCTGGAGGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TGAAGGACTCGGCATTGAAGGTGCTTTATCTGCATAATAACCAGCTTCTAGCTGGAGGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TGCATGCAGGGAAGGTCATTAAAGGTGAAGAGATCAGCGTGGTCCCCAATCGGTGGCTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            rcagacticacccagcricccgagaargergecrggaargcccccarcacagacricracr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                  Ъ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DB 8; Length 2598;
                                                                                                                                                                                                                                                  Godowski
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 2598 BP; 687'A; 590 C; 648 G; 673 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Indels
                                                                                                                                                                                                                                                  Goddard A,
Wood WI;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 2514.2;
Pred. No. 0;
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AGGGGAGTCTACACCCTGTGGAGCTCAAGATGGT
                                                                                                                                                                                                                                                  ã,£,
                                                                                                                                                                                                                                                Gerritsen M
Watanabe (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Disclosure; Fig 151; 235pp; English
10-MAY-2001; 2001US-00854280.
30-MAY-2001; 2001US-00870574.
01-JUN-2001; 2001US-00870576.
05-JUN-2001; 2001US-00874503.
29-JUN-2001; 2001US-0086959.
18-JUL-2001; 2001US-00908827.
06-DEC-2001; 2001US-00006867.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         98.1%;
99.6%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Best Local Similarity 99.6
Matches 2552; Conservative
                                                                                                                                                                                                                                                Filvaroff E,
                                                                                                                                                                                                  (GETH ) GENENTECH INC
                                                                                                                                                                                                                                                                                                                         2003-401699/38
                                                                                                                                                                                                                                                                                                                                                   P-PSDB; ABU91035
                                                                                                                                                                                                                                                                            ď,
                                                                                                                                                                                                                                                Eaton DL,
Grimaldi i
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     38
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       98
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     158
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     218
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   278
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   338
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                398
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
```

g

ò

В

ઠે

g

8

a

ò

a

ò

ద

ò

ò

g

g

ò

ò

gene.

cancer; gene therapy; tissue typing;

(first entry)

```
Human secreted/transmembrane polypeptide PRO4342
                                                                                               01-MAY-2002; 2002US-00063517
                                 Human; ss; tumour;
                                                               US2003009012-A1.
                                                Ното варіелв.
 11-SEP-2003
                                                                               09-JAN-2003
CCCCCCCXXXX
                                                               1776
                                                                                                                                             1919
                                                                                                                                                                            1979
                                                                                                                                                                                                                           2076
                                                                                                                                                                                                                                                           2136
                                                                                                                                                                                                                                                                           2159
                                                                                                                                                                                                                                                                                          2196
                                                                                                                                                                                                                                                                                                                                          2279
                                                                                                                                                                                                                                                                                                                                                                                                                                      2459
                                                                                                              1859
                                                                                                                              1896
                                                                                                                                                                                                                                                                                                                                                                         2339
                                                                                                                                                                                                                                                                                                                                                                                        2375
                                                                                                                                                                                                                                                                                                                                                                                                        2399
                                                                                                                                                                                                                                                                                                                                                                                                                       2435
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2519
                                                                                        CATCCTTCTTGGAATCTCAGTCTGTGAGTTTATTTGGAGATAAGGTCTCTGCAGATGTAG 1836
                                                                                                                                                      TTGTATGAAAAGGAGAGACACAGAGACAGAGGAGACGCGGGGGAAGACTATGTAAAGATG 1956
                                                                                                                                                                                                                                                                                                                                                                                                                                                      2495
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2555
CACTGAGGAGGAGCCTGTGCTGAGTTTGTGTGGCTGGAATCTCTGGGTAAGGAACTTAAA 1656
                                                                              CATCCTTCTTGGAATCTCAGTCTGTGAGTTTATTTGGAGATAAGGTCTCTGCAGATGTAG
                         GAACAAAAATCTTCTGTTATCTTTCCTAGAAGGATCACAGCCCCTGGGATTCCAAGGC
                                                        ATTGGATCCAGTCTCTAAGAAGGCTGCTGTAACTGGTTGAATTGTGTCCCCCCTCAAATTCA
                                                                                                                             Tractralacadeteatectecteateaaggradaceraatreaarateaetectect
                                                                                                                                                                                    2017 TCAGAAGCTTGGAAGAGGCAAAGAAGAATTCTTCCCTAGAGGCTTTAGAGGGATAACGGC
                                                                                                                                                                                                                                                   CTGTTTTAAGCCACCAAGGATAATTGGTTACAGCAGCTCTAGGAAACTAATACAGCTGCT
                                                                                                                                                                                                                                                                                                                   CAATCTATCTTGGCTCACTCGCTCTGGGGGAAGCTAGCTGCTGCTATGAGCAGGCCTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                GAAGCAGAGACTCTGTGAGATAATCGATGTTTGTTTTTAAGTTGCTCAGTTTTGGTCT
                                                                                                             TTAGTTAAGACAAGGTCATGCTGGATGAAGGTAGACCTAAAATTCAATATGACTGGTTTCC
                                                                                                                                            TTGTATGAAAAGGAGAGACACAGAGACAGAGGAGACGCGGGGAAGACTATGTAAAAGATG
                                                                                                                                                                            AAGGCAGAGATCGGAGTTTTGCAGCCACAAGCTAAGAAACACCAAGGATTGTGGCAACCA
                                                                                                                                                                                                           TCAGAAGCTTGGAAGAGCAAAGAAGTTCTTCCTTGAGGCTTTAGAGGGATAACGGC
                                                                                                                                                                                                                                           TCTGCTGAAACCTTAATCTCAGACTTCCAGCCTCCTGAACGAAGAAAAATTTCGG
                                                                                                                                                                                                                                                                           CTGTTTTAAGCCACCAAGGATAATTGGTTACAGCAGCTCTAGGAAACTAATACAGCTGCT
                                                                                                                                                                                                                                                                                                          AAGTTGTCTTTGTGACCCAATAGAATATGGCAGAAGTGATGGCATGCCACTTCCAAGATT
                                                                                                                                                                                                                                                                                                                                                   CAATCTATCTTGGCTCACTCGGGGGAAGCTAGCTGCCATGCTATGAGCAGGCCTA
                                                                                                                                                                                                                                                                                                                                                                                                                                      GAAGCAGAGACTCTGTGAGATAATCGATGTTTGTTTTTAAGTTGCTCAGTTTTGGTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AACTTGTTATGCAGCAATAGATAAATAATATGCAGAGAAAGAG 2562
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AACTTGTTATGCAGCAATAGATAAATAATAGCAGAGAAAGAG
                               1657
                                               1680
                                                             1717
                                                                              1740
                                                                                             1777
                                                                                                              1800
                                                                                                                            1837
                                                                                                                                             1860
                                                                                                                                                            1897
                                                                                                                                                                            1920
                                                                                                                                                                                            1957
                                                                                                                                                                                                           1980
                                                                                                                                                                                                                                           2040
                                                                                                                                                                                                                                                         2077
                                                                                                                                                                                                                                                                          2100
                                                                                                                                                                                                                                                                                         2137
                                                                                                                                                                                                                                                                                                                                         2220
                                                                                                                                                                                                                                                                                                                                                         2257
                                                                                                                                                                                                                                                                                                                                                                         2280
                                                                                                                                                                                                                                                                                                                                                                                        2316
                                                                                                                                                                                                                                                                                                                                                                                                       2340
                                                                                                                                                                                                                                                                                                                                                                                                                       2376
                                                                                                                                                                                                                                                                                                                                                                                                                                       2400
                                                                                                                                                                                                                                                                                                                                                                                                                                                      2436
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2460
                                                                                                                                                                                                                                                                                                                         2197
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2496
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2520
                                                                                                                                                                                                                                                                                                          2160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2556
              ò
                          쉱
                                        ઠે
                                                            g
                                                                             ઠે
                                                                                          유
                                                                                                           ઠે
                                                                                                                          요
                                                                                                                                                        g
                                                                                                                                                                                         g
                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                         ઠે
                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                    કે
                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                     요
                                                                                                                                                                                                                                                                                                                                    ð
                                                                                                                                                                                                                                                                                                                                                      임
                                                                                                                                                                                                                                                                                                                                                                        ઠે
                                                                                                                                                                                                                                                                                                                                                                                    8
                                                                                                                                                                                                                                                                                                                                                                                                                      a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                           ઠે
                                                                                                                                                                         ઠે
                                                                                                                                                                                                        ઠે
                                                                                                                                                                                                                                                                                                       ઠે
                                                                                                                                                                                                                                                                                                                                                                                                      ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
```

```
02-JUN-2000; 2000W0-US015264.
24-AUG-2000; 2000W0-US015264.
18-SEP-2000; 2000W0-US023328.
18-SEP-2000; 2000W0-US03328.
18-SEP-2000; 2000W0-US03328.
10-NOV-2000; 2000W0-US033678.
10-DEC-2000; 2000W0-US032678.
20-DEC-2000; 2000W0-US032678.
98KR-00062142.
99WO-US005028.
99WO-US01033.
99US-00380137.
99US-00380138.
99US-00380142.
99US-00380142.
99US-00403297.
                                                                                                                                                                                                                                                 2000WO-US005601.
2000WO-US005841.
2000WO-US007532.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               30-MAY-2001; 2001US-00870574.
                                                                                                                                                                                                                                                                                                          2000WO-US014042
                                                                                                                                                                                                             99WO-US031274
                                                                                                                                                                                                                               2000WO-US004341
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            06-DEC-2001; 2001US-00006867
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (GETH ) GENENTECH INC.
                                                                         25-AUG-1999;
25-AUG-1999;
25-AUG-1999;
15-AUG-1999;
115-OCT-1999;
116-OCT-1999;
118-OCT-1999;
118-PEB-2000;
01-MAR-2000;
02-MAY-2000;
02-MAY-2000;
02-AUG-2000;
02-AUG-2000;
03-AUG-2000;
04-AUG-2000;
04-AUG-2000;
05-AUG-2000;
06-AUG-2000;
07-AUG-2000;
07-AUG-2000;
07-AUG-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        29-JUN-2001;
```

PJ ; Godowski Ä Goddard A Wood WI; Ä,Ÿ Gerritsen Natanabe ( E, AL, Eaton DL, Filvaroff Grimaldi JC, Gurney

WPI; 2003-447383/42. P-PSDB; ABO27356.

New isolated antibody specifically binding a PRO polypeptide, useful for the preparation of a medicament for treating disorders with the aberrant expression or activity of the PRO polypeptide, such as tumor conditions and cancer.

Dislcosure; Fig 151; 223pp; English.

The invention relates to an antibody that binds to a secreted and transmembrane PRO polypeptide. The methods and compositions of the present invention are useful for the preparation of a medicament for the treatment of disorders associated with the aberrant expression or activity of the PRO polypeptide, such as tumour conditions and cancer. They can also be used to generate transgenic or knockout animals useful

standard; cDNA; 2598

ACD45224

ACD45224 ID ACD4 XX AC ACD4 XX

ACD45224

```
.8-JUL-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             н
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
                                                                                                                                                                                                                                                                        Grimaldi
                                                                                                                                                                                                                                                                Eaton
 ઠ
                                                        2159
                                                                                                                       2279
                                                                                                                                                        2339
                                                                                                                                                                       2375
                                                                                                                                                                                        2399
                                                                                                                                                                                                       2435
                                                                                                                                                                                                                                       2495
                         2099
                                       2136
                                                                       2196
                                                                                                       2256
                                                                                                                                       2315
                                                                                                                                                                                                                       2459
                                                                                                                                                                                                                                                        2519
                                                                                                                                                                                                                                                                        2555
                                                                                                                                                                                                                                                                                                                                                                                                            Human; 88; gene; PRO; secreted protein; transmembrane protein; cytostatic; vulnerary; osteopathic; antiarthritic; antirheumanic; lung tumour; colon tumour; breast tumour; prostate tumour; rectal tumour; liver tumour; tumour necrosis factor; pericyte cell proliferation; TNF-alpha; proteoglycans release; cartilage; cancer; wound healing; cartilage defect; osteoarthritis; rheumatoid arthritis.
CAATCTATCTTGGCTCACTCGCTCTGGGGGAAGCTAGCTGCCATGCTATGAGCTAGGCTATA
                                                                                                                                                                                                                                TAAAAGAGACTTACGTGGTAAAAAATGAAGTCTCCTGCCCACAGCCACATTAGTGAACCTA
                                        rendengabalentaareneagerrendegerrendabelgabagabaraarenege
                                                                       cretritraagccaccaaggaraarregrracagcagcretraggaaacraaracagcrecr
                                                                                                       AAAATGATCCCTGTCTCCTGTTTTACATTCTGTGTGTGTCCCCTCCCACAATGTACCA
                                                                                                                       AAGTTGTCTTTGTGACCCAATAGAATATGGCAGAAGTGATGGCATGCCACTTCCAAGATT
                                                                                                                                                        CAATCTATCTTGGCTCACTCGCTCTGGGGGAAGCTAGCTGCCATGCTATGAGCAGGCCTA
                                                                                                                                                                                                                       GAAGCAGAGACTCTGTGAGATAATCGATGTTTGTTGTTTTAAGTTGCTCAGTTTTGGTCT
                                                                                                                                                                                                                                                                    GAAGCAGAGACTCTGTGAGATAATCGATGTTTGTTTTTTAAGTTGCTCTAGTTTTTGGTCT
                                                        CTGTTTTAAGCCACCAAGGATAATTGGTTACAGCAGCTCTAGGAAACTAATACAGCTGCT
                                                                                       Human cDNA encoding secreted/transmembrane protein PRO4342
                                                                                                                                                                                                                                                                                        AACTTGTTATGCAGCAATAGATAAATAATATGCAGAGAAAGAG 2562
                                                                                                                                                                                                                                                                                                 ACTTGTTATGCAGCAATAGATAAATAATATGCAGAGAAAGAG 2598
                                                                                                                                                                                                                                                                                                                                             ACA93772 standard; cDNA; 2598 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   98KR-00062142.
99WO-US035028.
99UG-00311832.
99UG-00380137.
99US-00380137.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             99US-00380142
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2002US-00053553
                                                                                                                                                                                                                                                                                                                                                                              17-JUL-2003 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US2003045684-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   25-AUG-1999;
25-AUG-1999;
25-AUG-1999;
25-AUG-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    02-MAY-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    14-MAY-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              14-MAY-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      06-MAR-2003
                                                                                                                                       2257
                                                                                                                                                                       2316
                                                                                                                                                                                       2340
                                                                                                                                                                                                       2376
                                                                                                                                                                                                                       2400
                                                                                                                                                                                                                                       2436
                                                                                                                                                                                                                                                                                                      2556
                         2040
                                       2077
                                                       2100
                                                                                       2160
                                                                                                                       2220
                                                                                                                                                                                                                                                                       2496
                                                                       2137
                                                                                                       2197
                                                                                                                                                        2280
                                                                                                                                                                                                                                                        2460
                                                                                                                                                                                                                                                                                       2520
                                                                                                                                                                                                                                                                                                                                                              ACA93772;
                                                                                                                                                                                                                                                                                                                                      ACA93772
                                                                                                                                                                                                                                                                                                                                               셤
                                                                      유
                                                                                                      셤
                                                                                                                                       셤
                                                                                                                                                                     g
                                                                                                                                                                                                       음
                                                                                                                                                                                                                                     a
                                                                                                                                                                                                                                                                                      δ
                                                                                                                                                                                                                                                                                                     셤
                        ò
                                                      8
                                                                                      Š
                                                                                                                       ò
                                                                                                                                                       ò
                                                                                                                                                                                       ጵ
                                                                                                                                                                                                                     δ
                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                      원
```

```
The invention relates to a new isolated PR0994 polypeptide comprises an amino acid sequence appearing as ABU92499, PR0994 lacking its associated signal peptide, the extracellular domain of PR0994, the extracellular domain of PR0994, the extracellular domain of PR0994 (lacking it associated signal peptide) or the protein encoded by the full-length coding sequence of the cDNA ATCC 203018. Also included is a chimaeric molecule comprising the PR0994 polypeptide fused to a heterologous amino acid sequence. The PRO polypeptide is useful in parmaceuticals, diagnostics, biosensors or bioreactors. It is particularly useful for detecting tummours (e.g. lung tummour, colon tummour, breast tummour, prostate tummour, rectal tummour, or liver tummour) in a mammal, for stimulating the release of tummour necrosis factor (TNF) alpha from human blood, for stimulating the proliferation of pericyte cells, or stimulating the release of proteoglycans from cartilage. The polypeptide may be employed for a variety of therapeutic purposes, e.g. for treating cancer, wound healing, cartilage defects, osteoarthitis, cheumatoid arthritis. Also disclosed are the cDNA encoding PR0994, 83 other PRO polypeptides and their encoding cDNAs. The present sequence encoding a PRO polypeptide of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                New PRO994 polypeptide, useful for detecting tumors, or for stimulating tumor Necrosis Factor alpha, or pericyte proliferation, especially for treating cancer, cartilage defects, osteoarthritis and rheumatoid arthritis in a mammal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   38 AGGGGAGTCTACACCCCTGTGGGAGCTCAAGATGGTCCTGAGTGGGGGCGCTTCTGGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AGGGGAGTCTACACCCTGTGGAGCTCAAGATGGTCCTGAGTGGGGCGCTGTGCTTCCGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Ω,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length 2598;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Godowski
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 2598 BP; 687 A; 590 C; 648 G; 673 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              8; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Goddard A,
Wood WI;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DB 8;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 2514.2;
Pred. No. 0;
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gerritsen ME,
Watanabe CK,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Disclosure, Fig 151, 235pp; English.
                                                                                                                                                                                                                                                               2000US-00644848.
2000WO-US023328.
2000US-00664610.
2000US-00665350.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2000WO-US034956.
2001WO-US006520.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2001US-00816744.
2001US-00854208.
2001US-00854280.
                                                                                                                                                                                                                                                                                                                                                                                                                            2000WO-US032678.
2000US-00747259.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2001US-00870574
2001WO-US017800
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         98.1%;
99.6%;
                                                                                                                                                                                                                                                                                                                                                                           2000US-00709238
                                                                                                                                                                                                                                                                                                                                                                                                 2000WO-US030873
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2001US-00874503
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2001US-00869599
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2001US-00908827
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   06-DEC-2001; 2001US-00006867
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Ē,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Best Local Similarity 99.6
Matches 2552; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (GETH ) GENENTECH INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Filvaroff
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gurney
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2003-392892/37
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    P-PSDB; ABU92551
15-SEP-1999;
18-OCT-1999;
30-DEC-1999;
30-DEC-1999;
18-FEB-2000;
01-MAR-2000;
21-MAR-2000;
22-MAY-2000;
22-AUG-2000;
24-AUG-2000;
24-AUG-2000;
                                                                                                                                                                                                                                                                                                                    18-SEP-2000;
18-SEP-2000;
08-NOV-2000;
10-NOV-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                            01-DEC-2000;
20-DEC-2000;
20-DEC-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ďĊ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                01-JUN-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            28-FEB-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  30-MAY-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    29-JUN-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
```

Э; 9 97

ATCAAAATCCCGGGTGCTGGTCTGTATTCCCATGAAAAGTGCTCATGACATATTGAGAA 1199 ATCAAAATCCCAGATGCTGGTCTCTATTCCCATGAAAAGTGCTCATGACATATTGAGAA 1236 GACCTACTTACAAAGTGGCATATTTCCATTTTTAATTAAAAGAGTACCTATTTATA 1259 GACCTACTTACAAAGTGGCATATTTGCAATTTATTTTAAATAAA	TACAATGAAGATGCCTTGTATAAAATAAGAAAGAAATTAATCTTGAGGTAAGCA 1439	CACTGAGGAGGAGGCTGTGAGTTTGTGTGGAGTTCTGGGTAAGGAACTTAAA 1656 GAACAAAAATCATCTGGTAATTCTTTCCTAGAAGGATCTCTGGGTAAGGAACTTAAA 1656 GAACAAAAATCATCTGGTAATTCTTTCCTAGAAGGATCACAGCCCCTGGGATTCCAAGGC 1679 GAACAAAAATCATCTGGTAATTCTTTCCTAGAAGGATCACAGCCCCTGGGATTCCAAGGC 1716 ATTGGATCCAGTCTCTAAAGAAGGCTGCTGTAATTGTGTCCCCCTCAAATTCA 1739 ATTGGATCCAAGTCTCTAAGAAGGCTGCTGTAATTGTGTCCCCCTCAAATTCA 1776 CATCCTTCTTGGAATCTCAGTCAGTTTATTTGGAGATAAGGTTCCTGCAAATTCA 1796 CATCCTTCTTGGAATCTCAGTCAGTTTATTTGGAGATAAGGTTCCTGCAGATGTAG 1739 CATCCTTCTTGGAATCTCAGTCAGTTTATTTGGAGATAAGGTTCCTGCAGATGTAG 1836 CATCCTTCTTGGAATCTCAGTCAGTTTATTTGGAGATAAGGTTCTTGCAGAATGTAG 1836	18 19 19 20	TCAGAAGCTTGGAACAGGCAAAGAAATTCTTCCCTAGAGGCTTTAGAGGGATAACGGC 2039
120 Db 1140 1180 Db 1177 217 QY 1260 240 Db 1237 277 QY 1260 240 Db 1297 277 QY 1320 300 Db 1357	397 QY 1380 397 QY 1417 420 Db 1417 457 QY 1500 480 Db 1537 517 QY 1560	576 Db 1597 600 Db 1620 636 Qy 1680 660 Db 1717 720 Db 1717	756 Qy 1800 780 Db 1837 816 Qy 1860 840 Db 1897 876 Qy 1920 900 Db 1957	960
61 TGAAGGACTCGGCATTGAAGGTGCTTTATCTGCATAATAACCAGCTTCTAGCTGGAGGGC	GGGCGAGGAACCCAGGCTTCACCCCAGGGGGGGAACATGGAACCCAGGGGGGGG	518 TCCAGCAGTGAGAGGAACGTG-CCCCCAGAACTCCTGGGCAGAGCCAGCTGGGCAGAGCCAGCTGGGCAGAGCCAGCTGGGCAGAGCCAGAGCCAGAACTCCCTGGGCAGAGCCAGCTGGGCAGACCTGGGCAGAACTCCCTGGGCAGAGCCCGGGCAGAGCCCCGGGACAATCACTCTTCTGCTCTCTCAGAACCCCGGGACAATCACTCTCTCT	697 CTGAGATTTGGAGCTCAGGTCAAGGTCCCCCCACTGGATGGTGCTACTGCTGTGGAAC 721 CTTGTAAAAACCATGTGGGGTAAACTGGGAATAACATGAAAAAATTTCTGTGGGGGTGGG 757 CTTGTAAAAACCATGTGGGGTAAACTGGGAATAACATGAAAAGATTTCTGTGGGGGTGGG 781 GTGGGGGAGTGCTGGGAATCATCCTGCTTAATGGTAACATGAAAAGATTTCTGTGGGGGTGGG 781 GTGGGGGAGTGCTGGGAATCATTCCTGCTTAATGGTAACTGACAAGTGTTACCCTGAGCC 817 GTGGGGGAGTGGTGGGAATCATTCCTGCTTAATGGTAACTGACAAGTGTTACCCTGAGCC 841 CCGCAGGCCAACCCCATCCCCCTTAATGGTAACTGACAAGTGTTACCCTGAGCT 61	CTCTCACTCACCACTGTGCAGAGAGGAGGGGTCATAGAGTCACCACCCCTCACCACCTCACCACCTCACCACCTCACCAC

us-09-617-720a-1.rng

```
61 TGAAGGACTCGGCATTGAAGGTGCTTTATCTGCATAATAACCAGCTTCTAGCTGGAGGGC 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  157
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TGCATGCAGGGAAGGTCATTAAAGGTGAAGAGATCAGCGTGGTCCCCAATCGGTGGCTGG 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   277
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          337
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         217
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     397
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         reastreseracedascrestrecrerecadescerecadecreasecearcadecre 457
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      517
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             576
                                                                                                                                                                                                                                                                                                                                                                                                                                The invention relates to an antibody that binds to a secreted and transmembrane polypeptide, PRO1136. The antibody is useful for preparing a medicament useful in the treatment of a condition responsive to anti-PRO antibody. The antibody is also useful in diagnostic assays for PRO, by detecting its expression in specific cells, tissues or serum, and for affinity purification of PRO from recombinant cell culture or natural sources. The present sequence represents a cDNA encoding a PRO polypeptide of the invention
                                                                                                                                                                                                                                                                                                                      New monoclonal antibody that binds to a secreted and transmembrane polypeptide, useful for detecting and purifying the polypeptide and also for treating conditions responsive to the antibody.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         97
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AGGGGAGTCTACACCCCTGTGGAGCTCAAGATGGTCCTGAGTGGGGGCGCTGTGCTTCCGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              181 ATGCCAGCCTGTCCCCGTCATCCTGGGTGTCCAGGGTGGAAGCCAGTGCCTGTCATGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GGGTGGGGCAGGACCCGACTCTAACACTAGAGCCAGTGAACATCATCATGGAGCTCTATCTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GGGTGGGGCAGGAGCCGACTCTAACACTAGAGCCAGTGAACATCATGGAGCTCTATCTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TGCATGCAGGGAAGGTCATTAAAGGTGAAGAGATCAGCGTGGTCCCCCAATCGGTGGCTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GTGCCAAGGAATCCAAGAGCTTCACCTTCTACCGGCGGACATGGGGCTCACCTCCAGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 AGGGGAGTCTACACCCTGTGGAGCTCAAGATGGTCCTGAGTGGGGCGCTGTGCTTCCGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GTGCCAAGGAATCCAAGAGCTTCACCTTCTACCGGCGGGACATGGGGCTCACCTCCAGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TCGAGTCGGCTGCCTACCCGGGCTGGTTCCTGTGCACGGTGCCTGAAGCCGATCAGCCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TCAGACTCACCCAGCTTCCCGAGAATGGTGGCTGGAATGCCCCCATCACAGACTTCTACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TCAGACTCACCCAGCTTCCCGAGAATGGTGGCTGGAATGCCCCCATCACAGACTTCTACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TCCAGCAGTGTGACTAGGGCAACGTGCCCCCCAGAACTCCCTGGGCCAGAGCCAGGTCGG
                                                                                                                                                                                                          Ρ.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DB 8; Length 2598;
                                                                                                                                                                                                          Godowski
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 2598 BP; 687 A; 590 C; 648 G; 673 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
                                                                                                                                                                                                          Goddard A,
Wood WI;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 .;
8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               99.6%; Pred. No. v, 09.6%; O; Mismatches
                                                                                                                                                                                                          Gerritsen ME,
Watanabe CK,
                                                                                                                                                                                                                                                                                                                                                                                                 Example 4; Fig 151; 235pp; English
 10-MAY-2001; 2001US-00854208.

10-MAY-2001; 2001US-00854280.

30-MAY-2001; 2001US-00870574.

01-JUN-2001; 2001US-00874503.

05-JUN-2001; 2001US-00869599.

18-JUL-2001; 2001US-00968827.

06-DEC-2001; 2001US-00006867.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Best Local Similarity 99.6
Matches 2552; Conservative
                                                                                                                                                                                                          Ē,
                                                                                                                                                                     GETH ) GENENTECH INC.
                                                                                                                                                                                                        Eaton DL, Filvaroff
Grimaldi JC, Gurney
                                                                                                                                                                                                                                                              WPI; 2003-341840/32.
P-PSDB; ABU81221.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           38
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  86
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           158
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    218
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          278
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     338
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           398
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    458
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               518
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  임
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  · &
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                       2315
                                                           2339
                                                                                            2375
                                                                                                                                   2399
                                                                                                                                                                     2435
                                                                                                                                                                                                          2459
                                                                                                                                                                                                                                               2495
                                                                                                                                                                                                                                                                                   2519
                                                                                                                                                                                                                                                                                                                        2555
2316 AGGITATAAAAAGACACTGCAGCITCTACTTGAGCCCTCTCTCTCTGCCACCCACCCCCC
                                                                                                                                                        2376 CAATCTATCTTGGCTCACTCGCTCTGGGGAAGCTAGCTGCCATGCTATGTAGAGAGGCTA
                                                                                                                                                                                                                               2436 TAAAGAGACTTACGTGGTAAAAATGAAGTCTCCTGCCCACAGCCACATTAGTGAACCTA
                                                                                                                                                                                                                                                                                                       2496 GAAGCAGAGACTCTGTGAGATAATCGATGTTTGTTGTTGTTTTAAGTTGCTCAGTTTTGGTCT
                                                                                                                                 TAAAGAGACTTACGTGGTAAAAATGAAGTCTCCTGCCCACAGCCACATTAGTGAACCTA
                                                                                                                                                                                                                                                                                   GAAGCAGAGACTCTGTGAGATAATCGATGTTTGTTGTTTTAAGTTGCTCAGTTTTGGTCT
                                                         AACTIGITATGCAGCAATAGATAAATAATATGCAGAGAAAGAG 2562
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        cDNA encoding human secreted polypeptide PRO4342
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human; gene; ss; affinity purification
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               99WO-US005028.
99WG-US010733.
99WG-00380137.
99US-00380138.
99US-00380139.
99US-00380142.
99US-00403297.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ACA67346 standard; cDNA; 2598
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         99WO-US031274.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2000WO-US005601,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2000WO-US004341
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2000WO-US005841.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2000WO-US014042.
2000WO-US015264.
2000US-00644848.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2000US-00664610
2000US-00665350
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   20-DEC-2000; 2000US-00747259.
20-DEC-2000; 2000WO-US034956.
28-FEB-2001; 2001WO-US006520.
22-MAR-2001; 2001US-00816744.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2002US-00063544
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2000WO-US023328
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2000US-00709238
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 23-JUN-2003. (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US2003027212-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           01-MAR-2000;
02-MAR-2000;
21-MAR-2000;
22-MAY-2000;
02-JUN-2000;
24-AUG-2000;
24-AUG-2000;
18-SEP-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             02-MAY-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            18-SEP-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      14-MAY-1999;
25-AUG-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            25-AUG-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 15-SEP-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          18-FEB-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           25-AUG-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     12-NOV-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          30-DEC-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         06-FEB-2003
                                                         2280
                                                                                                                                 2340
                                                                                                                                                                                                          2400
                                                                                                                                                                                                                                                                                 2460
                                                                                                                                                                                                                                                                                                                                                           2520
                                                                                                                                                                                                                                                                                                                                                                                             2556
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ACA67346;
                       2257
                                                                                                                                                                                                                                                                                                                                                                                                                                                   ACAGNA AC
                                                    ઠે
                                                                                  엄
                                                                                                                       ò
                                                                                                                                                            ద
                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                     ઠે
                                                                                                                                                                                                                                                                                                                                                                                        셤
```

a,

ë

```
TGGCCCAGCCCCTTCCCTTT-ATCCTGCCACTGTCATATGCTACCTTTCCTATC 1019
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             816
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         876
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    936
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  960
                                                                                                                                                 120
                                                                                                                                                                                                              180
                                                                                                                                                                                                                                          217
                                                                                                                                                                                                                                                                       240
                                                                                                                                                                                                                                                                                                     277
                                                                                                                                                                                                                                                                                                                                   300
                                                                                                                                                                                                                                                                                                                                                                   337
                                                                                                                                                                                                                                                                                                                                                                                               360
                                                                                                                                                                                                                                                                                                                                                                                                                             397
                                                                                                                                                                                                                                                                                                                                                                                                                                                           420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          457
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    517
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             576
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             009
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           636
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    969
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  756
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                966
                                                                                                                                                                            rgaaggacrcggcarrgaaggrgcrrrarcrgcaraaraaccagcrrcragcrggagggc 157
                                                                                        9
                                                                                                                   97
                                                                                                                                                                                                                                                                                        218 ATGCCAGCCTGTCCCCGTCATCCTGGGTGTCCCAGGTGGAAGCCAGTGTCTGTG
                                                                                                                     38 AGGGGAGTCTACACCCTGTGGAGCTCAAGATGGTCCTGAGTGGGGCGCTGTGCTTCCGAA
                                                                                                                                                                                                                            GGGTGGGGCAGGAGCCGACTCTAACACTAGAGCCAGTGAACATCATGGAGCTCTATCTTG
                                                                                                                                                                                                                                                                                                                                                    GGGTGGGGCAGGAGCCGACTCTAACACTAGAGCCAGTGAACATCATGGAGCTCTATCTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                             TCGAGTCGGCTGCCTACCCGGGCTGGTTCCTGTGCACGGTGCCTGAAGCCGATCAGCCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TCAGACTCACCCAGCTTCCCGAGAATGGTGGCTGGAATGCCCCCATCACAGACTTCTACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TCCAGCAGTGTGACTAGGGCAACGTG-CCCCCCAGAACTCCCTGGGCAGAGCCAGCTCGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CTGAGATTTGGAGCTCAGGTCCACGCTCCCCCACTGGATGGTGCTACTGCTGTGGAAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CTTGTAAAAACCATGTGGGGTAAACTGGGAATAACATGAAAAAGATTTCTGTGGGGGTGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GTGGGGGAGTGGTGGCAATCATTCCTGCTTAATGGTAACTGACAAGTGTTACCCTGAGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CCGCAGGCCAACCCATCCCCCAGTTGAGCCTTATAGGGTCAGTAGCTCTCCACATGAAGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CCGCAGGCCAACCCCACTTCAACCCTTATAGGGTCAGTAGCTCTCCACATGAAGTC
                                                                                                                                                                                                                                                                        ATGCCAGCCTGTCCCCCGTCATCCTGGGTGTCCAGGGTGGAAGCCAGTGCCTGTCATGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TCAGACTCACCCAGCTTCCCGAGAATGGTGGCTGGAATGCCCCCATCACACTTCTACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GTGAGGGGTGAGTGGAGGAGACCCATGGCGGACAATCACTCTTTCTGCTCTCAGGACCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          gradesegradesegaseaseaseaseaseaseasearcacrererereseaseasee
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CTGAGATTTGGAGCTCAGGTCCAGGGTCCTCCCCCACTGGATGGTGCTACTGCTGTGGAAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CTTGTAAAAACCATGTGGGGTAAACTGGGAATAACATGAAAAGATTTCTGTGGGGGTGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GTGGGGGAGTGCTGGGAATCATTCCTGCTTAATGGTAACTGACAAGTGTTACCCTGAGCC
                                                                                                                                                   TGAAGGACTCGCCATTGAAGGTGCTTTATCTGCATAAAAACCAGCTTCTAGCTGGAGGGC
                                                                                                                                                                                                              TGCATGCAGGGAAGGTCATTAAAGGTGAAGAGATCAGCGTGGTCCCCAATCGGTGGCTGG
                                                                                                                                                                                                                                                                                                                                                                                                 GTGCCAAGGAATCCAAGAGCTTCACCTTCTACCGGCGGGCACATGGGGCTCACCTCCAGCT
                                                                                                                                                                                                                                                                                                                                                                                                                 GTGCCAAGGAATCCAAGAGCTTCACCTTCTACCGGGGGGACATGGGGGTCACCTCCAGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TCCAGCAGTGTGACTAGGGCAACGTGCCCCCCAGAACTCCCTGGGCAGAGCCAGGCTCGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CTCTCACTCACCACTGTGCAGGAGGGAGGTGGTCATAGAGTCAGGGATCTATGGCCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 AGGGGAGTCTACACCCTGTGGAGCTCAAGATGGTCCTGAGTGGGCGCTGTGCTTCCGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CAGGTCTGACTTAGTGGGCACCTGACTTTGTCTTCTGGTTCCCAGTTTGCATAAATT
                                                          Gaps
                                                          <u>ب</u>
                            Length 2598;
T; 0 U; 0 Other;
                                                          Indela
                            DB 8;
                                                          .
8
                          Score 2514.2;
Pred. No. 0;
0; Mismatches
C; 648 G; 673
Sequence 2598 BP; 687 A; 590
                            98.1%;
99.6%;
                            Query Match
Best Local Similarity 99.6
Matches 2552; Conservative
                                                                                                                                                                               98
                                                                                                                                                                                                                                            158
                                                                                                                                                                                                                                                                                                                                                                   278
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      458
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 518
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           577
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       637
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  697
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             757
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         817
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     877
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   937
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 961
                                                                                                                                                   61
                                                                                                                                                                                                               121
                                                                                                                                                                                                                                                                          181
                                                                                                                                                                                                                                                                                                                                      241
                                                                                                                                                                                                                                                                                                                                                                                                 301
                                                                                                                                                                                                                                                                                                                                                                                                                               338
                                                                                                                                                                                                                                                                                                                                                                                                                                                             361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           398
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     901
g
                                                                                                                     셤
                                                                                                                                                   ò
                                                                                                                                                                           g
                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ∂
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8 & 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          .જે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      a
                                                                                        ò
                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                       8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The invention describes an isolated polypeptide having at least 80, 85, 90, 95 or 99% identity with: (a) a sequence having 46-335 amino acids, or its extracellular domain; (b) a sequence having 46-335 amino acids, lacking its associated signal peptide; or (c) an amino acid sequence encoded by the full-length coding sequence of the cDNA (ATCC accession number 209956). The PRO (secreted and transmembrane) polypeptide is useful for preparing a medicament for treating a condition associated with PRO polypeptide. This sequence encodes a novel human secreted and transmembrane PRO polypeptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Godowski PJ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRO polypeptide, useful for preparing a medicament for treating condition associated with PRO polypeptide.
 and transmembrane protein PRO4342 cDNA.
                               88
                               Human; secreted and transmembrane protein; PRO; gene;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Goddard A,
Wood WI;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gerritsen ME,
Watanabe CK,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Disclosure; Fig 151; 222pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                               2000WO-US014042.
2000WO-US015264.
2000US-00644848.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2000WO-US023328.
2000US-00664610.
2000US-00665350.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ; 2001US-00854208.
; 2001US-00854280.
; 2001US-00870574.
; 2001WO-US017800.
                                                                                                                                                                                              99WO-US005028.
99US-00311832.
99WO-US010733.
99US-00380138.
99US-00380138.
                                                                                                                                                                                                                                                                                       99US-00380142.
99US-00397342.
99US-00403297.
99US-00423844.
                                                                                                                                                                                                                                                                                                                                                                                   2000WO-US005601,
2000WO-US005841.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2000WO-US032678.
2000WO-US032678.
2000US-00747259.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2000WO-US034956.
2001WO-US006520.
                                                                                                                                                                                                                                                                                                                                                                    2000WO-US004341
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2001US-00816744
                                                                                                                                                                                                                                                                                                                                                    99WO-US031274
                                                                                                                                                                                                                                                                                                                                                                                                                  2000WO-US007532
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2000US-00709238
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2001US-00874503
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2001US-00869599
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         18-JUL-2001; 2001US-00908827
06-DEC-2001; 2001US-00006867
                                                                                                                                                     2002US-00063549
                                                                                                                                                                                 98KR-00062142
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Eaton DL, Filvaroff E,
Grimaldi JC, Gurney AL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (GETH ) GENENTECH INC.
 human secreted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2003-456358/43
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              P-PSDB; ABO53335
                                                                                        US2003027986-A1
                                                                                                                                                                                                                                                                                                                                                                   18-FEB-2000;
01-MAR-2000;
21-MAR-2000;
21-MAY-2000;
22-MAY-2000;
22-JUN-2000;
22-AUG-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      10-NOV-2000;
01-DEC-2000;
20-DEC-2000;
20-DEC-2000;
28-FEB-2001;
22-MAR-2001;
10-MAY-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          24-AUG-2000;
18-SEP-2000;
18-SEP-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                10-MAY-2001;
30-MAY-2001;
                                                                                                                                                     02-MAY-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                01-JUN-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            29-JUN-2001;
                                                             Homo sapiens
                                                                                                                                                                                                                                            25-AUG-1999;
25-AUG-1999;
25-AUG-1999;
25-AUG-1999;
                                                                                                                                                                                                                                                                                                      15-SEP-1999;
18-OCT-1999;
12-NOV-1999;
30-DEC-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         08-NOV-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             05-JUN-2001;
                                                                                                                                                                                                 08-MAR-1999
14-MAY-1999
                                                                                                                      06-PEB-2003
                                                                                                                                                                                                                             14-MAY-1999
 Novel
```

g

ò

ò

g

& - 점

g

ò

8 8 8

g ò 음 장 g

S S

ò g

දු දු

8 8

δ 임 ò g & 8 6 8

TCTTCCCTCATCATCTTGTTGGGGATGAGGAGGTGGTGATGAGGAGATGGTGGTG
10020 10057 10057 10057 10050

CTCTGTGAGATAATCGATGTTTGTTGTTTTAAGTTGCTCAGTTTTGGTCT 2519 CCACCAAGATAATTGGTTACAGCAGCTCTAGGAAACTAATACAGCTGCT 2159 CTGTCTCCTCGTGTTTACATTCTGTGTGTCCCCTCCCACAATGTACCA 2219 TGTGACCCAATAGAATATGGCAGAAGTGGTGGCATGCCACTTCCAAGATT 2279 TGGCTCACTCGCTCTGGGGGAAGCTAGCTGCCATGCTATGAGCAGGCCTA 2399 GCAGCAATAGATAAATAATATCCAGAGAAAGAG 2562

13, 2005, 12:34:11

 $\mathcal{L}_i$ 

```
March 13, 2005, 11:56:15 ; Search time 8384.03 Seconds
  (without alignments)
  11636.250 Million cell updates/sec
                                                                                                                                                              68479088
GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
                                                                                                                                                                                                                                 34239544 seqs, 19032134700 residues
                                                                                                                                                                                                                                                        Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                            Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                    OM nucleic - nucleic search, using sw model
                                                                                                                                                                                        IDENTITY NUC
Gapop 10.0 , Gapext 1.0
                                                                                                                                                                                                                                                                                     Minimum DB seq length: 0
Maximum DB seq length: 200000000
                                                                                                                                  US-09-617-720A-1
2563
                                                                                                                                                                                                                                                                                                                                                                                                90 est1:

90 est2:

90 est4::

90 est4::

90 est6::

90 gs8::

90 gs8::
                                                                                                                                                                                                                                                                                                                                                                                    EST: *
                                                                                                                                                                                                                                                                                                                                                                                                 Title:
Perfect score:
                                                                                                                                                                                         Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                      Database :
                                                                                                                                                              Sequence:
                                                                                                                                                                                                                                 Searched:
                                                                               Run on:
```

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

	Description	CR613851 full-leng	BC000945 Homo sapi	AL570964 AL570964	CK232552 ILLUMIGEN	ALS45100 ALS45100	BX091500 BX091500	BI089828 602855071	BX350082 BX350082	CA310393 UI-H-FT1-	BF509095 UI-H-BI4.	BI090567 602855674	BX350083 BX350083	AU138695 AU138695	BQ351235 RC0-HT077	AY413262 Homo sapi	CV029389 8151 Full	AZ521126 RPCI-11-1	AY413263 Pan trogl	AI040890 ow26a12.x	BF435174 nab43h02.	AI831402 wj64a07.x	AI469873 tj88a08.x	AA722902 zg81a03.s	BE711845 QV2-HT069
SUMMARIES	ID	CR613851	BC000945	AL570964	CK232552	AL545100	BX091500	BI089828	BX350082	CA310393	BF509095	BI090567	BX350083	AU138695	BQ351235	AY413262	CV029389	AZ521126	AY413263	A1040890	BF435174	AI831402	AI469873	AA722902	BE711845
	DB	<u>ر</u>	ო	-	7	Н	5	4	'n	9	~	4	S	~	ഗ	σ	7	œ	σ	-	~	-		ч	7
	Query Match Length DB	2605	1648	1140	1080	985	750	726	876	702	697	828	915	555	555	468	632	467	468	485	464	464	442	414	435
de	Query Match	96.3	61.2	38.2	28.5	27.8	27.6	26.7	25.6	25.2	25.1	24.6	21.5	20.6	18.8	18.3	18.2	18.1	18.1	17.6	17.0	16.7	16.3	15.5	15.4
	Score	2469.2	1568.4	980.2	731.6	712.6	707	683.8	656.2	644.6	643.2	631.6	551.4	527.8	481	468	467	465	463.2	451.2	436.8	427.8	418	398.2	393.6
	Result No.	1	7	υ υ	4	Ŋ	9	7		σ υ	c 10	11	c 12	13	14	15	16	17	18	c 19	c 50		c 55	c 23	c 24

	C 25 C 26 C 28 29		387.4 384.6 384.6 380.8 379.8	15.1 15.0 14.9	410 1051 1199 416 862	9 3 3 3 5	AI167887 AK009741 AK008977 AU157708 CB590160	AI167887 ozglc09 AK009741 Mus mus AK008977 Mus mus AU157700 CB590160 AGENCOU	muscu muscu 7708
	322		79.4 73.4 367 36.6	4444	2841 885 414 1531		AK014576 CB589411 CR742272 AK010020	AK014576 Mus mus CB589411 AGENCOU CR742272 CR74227 AK010020 Mus mus	BCU OURT ?72 ISCU
	34 35 36		3.60 9.60 4.60	4666	708 400 374		BY709379 BG010066 R70041	BY709379 BY70937 BG010066 PM4-GN0 RY0041 W148904.8	179 1030 81
	3 W W 4 4	31	าเกตเ	10100	348 348 938		R70089 BX477358 CB194288	ACTIVITY OF A TOTAL OT	r1 1860 URT
	0 443 454 54			10.0 8.9 8.7 8.5	238 238 784 784		BY708859 W08205 AW014217 CC526753	BY708859 BY708859 W708205 mb49b11.rl AW014217 UI-H-BIO- CC526753 CH240_401	7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
							ALIGNMENTS	rrs	
жона	RESULT 1 CR613851 LOCUS DEFINITION	1 51 TION	CR61 full	CR613851 full-length of Homo Bapi	n cDNA	. clone (human)	2605 bp tecsobiol3xA07	mRNA linear HTC 21-JUL-200 A07 of Placenta Cot 25-normalized	-2004 zed
W X C JA	ACCESSION VERSION KEYWORDS SOURCE ORGANISM	NON NO DS NISM	CR61 CR61 HTC; HOMO HOMO Eukar		851 851. GI:5049465 GNSLT_CDNA. Sapiens (human) sapiens (applementation) yota; Metazoa, Ch	949 1811 1815	8 ordata;	Craniata; Vertebrata; Buteleostomi;	mi;
LL,	REFERENCE AUTHORS TITLE JOURNAL REMARK		Li, W Full Unpu Cont http	bases [B., G) -length blisher act : I	to 26 cuber, C n cDNA 1 feng Li llength	os) lib: ang	(bases 1 to 2605) Li,W.B., Gruber,C., Jessee,J. and Full-length cDNA libraries and not Unpublished Contact : Feng Liang Email : fliar http://fulllength.invitrogen.com/	J. and Polayes, D. and normalization : fliang@lifetech.com URL : n.com/ InVitroGen Corporation 1600	
<b>1</b> 24	REFERENCE AUTHORS TITLE JOURNAL		Geno Geno Dire Subm BP 1	bases scope. ct Submitted	to 26 nission (20-JUL)	(60) -20(	Caraday Avenue Caracteristics (10 2605) Genoscope. Direct Submission Submitted (20-JUL-2004) Genoscope - BP 191 91006 EVRY cedex - FRANCE (E	e - Centre National de Sequencage : (E-mail : seqref@genoscope.cns.fr	age :
J	COMMENT		- We lst end into	b : www strand enriche the No	cDNA wed, dou	COD	e.cns.fr) primed with strand cDNA coR V sites iry was cons	otI-olig s digest the pCMV	prime loned rary a
114	FEATURES sou	RES source		eoro Para Zana Zana Para Zana Zana Zana Zana Zana Zana Zana Z	cation cation 2605 organis nol typ lb xref 10ne="	rogr //Our   Our   Our 	of Invitrogen. Location/Qualifiers 12605 /organism="Homo sapiens /mol type="mRNA" /db_xref="taxon:9606" /clone="CSODI013YA07" /tissue_type="Placenta"	". Cot 25-normalized"	
0	ORIGIN Query	/ Match	45 F	<u>"</u>	olasmid 96.	]="D(	ന	.2; DB 3; Length 2605;	
	Best Loc Matches	Loca	ıl Sim :513;	Local Similarity nes 2513; Conser	ilarity 99.2%; Conservative	7 2 4	No. Smatc	18; Indels	3,
0 (	ò		1 AG	GGGAGTC	TACACC	CTC	rggagctcaaga	1 AGGGAAGTCTACACCCTGTGGAGCTCAAGATGGTCCTGAGTQGGGGGCGTGTGCTTCCGAA (	
	a a		74 AG	GGGAGTK	TACACC	CIG	rggagctcaaga		133

13.1	1140 ATCAAAATCCCAGATGCTGGTCTTTTCCCATGAAAAGTGCTCATGACATATTGAGAA   1199	and about the control of the control	17 17 17 18 18 19	1960   TTGTATGAAAAGGAGACACAGAGACAGAGAACGCGGGGAAGACTATGTAAAGATG   1919	
13   19   19   19   19   19   19   19	6 8 5 8 5 8 5 8 5	6 6 8 6 6 6	8 6 6 6 6 8	8 6 8 6	6 8 6 8 6 8 6
	61 TGAAGGACTCGGCATTGAAGGTGCTTTATCTGCATAATAACCAGCTTCTAGCTGGAGGGC	361 TCGAGTCGGCTACCCGGGCTGGTTCCTGTGCAGGTGCCTGAAGCCGATCAGCCTG 431 TCGAGTCGCTTGCTTGCTGGTTCCTGTGCAGGTGCCTGAAGCCGATCAGCTG 431 TCGAGTCGCTTGCTTGCTGGGTGGTTGCTTGTGTGTGTGT	613 GTGAGGGGTGGAGGACCCATGGGGGACATCACTCTCTCTC	793 CTIGTAAAAACCAIGGGGTAAACTGGGAATAACATGAAAAGATTTCTGGGAGGTGGGG 781 GTGGGGGAGTGCTGGGGTAAACTGGGGAATAACGTGAAAAGATTTCTGTGGAGGTGGG 781 GTGGGGGAGTGCTGGGAATCATTCCTGCTTAATGGTAACTGACCAGTGTTACCCTGAGCC 853 GTGGGGAATGGTGGGAATCATTCCTGCTTAATGGTAACTGACCAGTGTTACCCTGAGCC 841 CCGCAGGCCAACCCATCCCCAGTTGAGCCTTAATGGGTCAGTAGCTCTCCACATGAAGTC 913 CCGCAGGCCAACCCATCCCCAGTTGAGCCTTATAGGGTCAGTAGCTCTCCCAATGAAGAC 914 CCGCAGGCCAACCCATGTGAGCCTTATAGGGTCATAGGGTCTCCCAATGAAGAC 915 CCGCAGGCCATGTGCAGAGAGGGAAGGGTGATAAGAGTCTCCACATAGAGACCTTTAATGGGTCATAGGGTCTTAAGGGTCTTAAGGGTCTTAATGGCCCTTTAATGGGTCATATGGGTCTTATAGGGTCTTATAGGGTCTTATAGGGTCTTATAGGGTCTTATAGGCCCTTTAATGGGTCATATGGGTCTTATGGCCCTTTTAATGGGTCATAGGGTCTTATAGGGTCTTATAGGGTCTTATGGCCCTTTTATGGGTCATAGGGTCTTATGGGCCCTTTTATGGCCCTTTTAATGGGTCATAGAGATCTATGGGCCCTTTTAATGGGTCATAGAGATCTATGGGCCCTTTTAATGGGTCATAGAGATCTATAGGCCCTTTTAAGGGTCATAGAGATCTATAGGCCCTTTTAATGGGTCATAGAGATCTATAGGCCCTTTTAAGGGTCATAGAGATCTATAGGCCCTTTTAATGGGTCATAGAGATCTATAGGCCCTTTTAAGGGTCATAAGAGATCTATAGGCCCTTTTAAGGGTCATAGAGATCTATAGGCCCTTTTAAGGGTCATAGAGATCTATAGGCCCTTTTAAGGGTCATAGAGATCTATAGGCCCTTTTAAGGGTCATAGAGATCTATAGGCCCTTTTAAGGGTCATAGAGATCTATAGGCCCTTTTAAGGGTCATAGAGATCTATAGGCCCTTTTAAGGGTCATAGAGATCTATAGGCCCTTTTAAGGGTCATAGAGATCTATAGGCCCTTTTAAGGGTCATAGAGATCTATAGGCCCTTTAAGGGTCATAGAGATCTATAGGCCCTTTAAGAGATCTAAGAGATCTATAGGCCCTTTAAGAGATCTAAGAGATCTATAGGCCCTTTAAGAGATCTAAGAGAAGAGAGAG	973 CTGTCACTCACTATGCAGAGAGAGAGAGTCATAGAGTCAGGATCTATGGCCCT 103 961 TGGCCCAGCCCCACCCCTTCCCTTT-ATCCTGCCACTGTCATATGCTACCTTTCCTATC 101 1033 TGGCCCAGCCCCACCTCCTTTAATCCTGCCACTGTCATATGCTACCTTTCCTATC 109 1020 TCTTCCCTCATCATCTTGTTGTGGGCATGAGGAGGTGGTGATGTGTCAAAGAAAAGATTCG 107 1093 TCTTCCCTCATCATCTTGTTGTGGGCATGAGGAGGTGGTGATGTGTGG 107 1093 TCTTCCCTCATCATCTTGTTGTGGGCATGAGGAGGTGGTTGG 115 1080 AGCTCAGAAGATAAAAAATAAGTAGGGTAGCTAATCTTTTAAAAACCCAAGATACA 113 1080 AGCTCAGAAGATAAAAGTAGGGTAGCTGATCCTTTTAAAAACCCCAAGATACA 113 1153 AGCTCAGAAGATAAAAGTAGGGTATGCTGATCCTCTTTTAAAAACCCCAAGATACA 121

```
Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov Series: IRAK Plate: 3 Row: i Column: 18
This clone has the following problem: retained intron.
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1014 CCTATCTCCTCCTCATCATCTTGTGGGCATGAGGAGGTGGTGATGATCAGAAAAAT 1073
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1134 GATACAATCAAAATCCCAGATGCTGGTCTCTATTCCCATGAAAAGTGCTCATGACATAT 1193
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1254 TTTATATATITCTTTATAGAAAAAGTCTGGAAGAGTTTACTTCAATTGTAGCAATGTA 1313
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing Center
Sequencing Center
Center code: BCM-HGSC
Web site: http://www.hgsc.bcm.tmc.edu/cdna/
Contact: ang@bcm.tmc.edu
Gontact: ang@bcm.tmc.edu
Rounartne, P.H., Garcia, A.M., Lu, X., Hulyk, S.W., Loulseged, H., Rowis, C.R., Sneed, A.J., Martin, R.G., Muzny, D.M., Nanavati, A.N., Gibbs, R.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TAAGCAGAGCAGACATCATCTCTGATTGTCCTCAGCCTCCAATTCCCCAGAGTAAATTCA 1493
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AATTGAATCGAGCTCTGCTGCTGGTTGGTTGTAGTAGTGATCAGGAAACAGATCTCAG 1553
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      481 TAAGCAGAGCAGACATCTCTGATTGTCCTCAGCCTCCACTTCCCCAGAGTAAATTCA 540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           301 TITITITATITCITIATAGAAAAAGTCTGGAAGAGTTTACTTCAATTGTAGCAATGTCA 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 361 GGGTGGTGGCAGTATAGGTGATTTTGAGTTGAGGTCTATTAATTTATCTGTATTTCCTAA 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TTTTTCTACAATGAAGATGAATTCCTTGTATAAAAATAAGAAAAGAAATTAATCTTGAGG 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   541 AATTGAATCGAGCTCTGCTCTGGTTGGTTGTAGTAGTGATCAGGAAACAGATCTCAG 600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       61 CCTATCTCTCCCTCATCATCTTGTGGGCATGAGGAGGTGGTGATGTCAGAAGAAAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 GGCCCTTGGCCCAGCCCCACCCCTTCCTTTAATCCTGCCACTGTCATATGCTACCTTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GGTTCGAGCTCAGAAGATAAAAGATAAGTAGGGTATGCTGATCCTCTTTTAAAAACCCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             181 GATACAATCAAAATCCCAGATGCTGGTCTCTATTCCCATGAAAAGTGCTCATGACATAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GGGTGGTGGCAGTATAGGTGATTTTTTTTTTAATTCTGTTAATTTATCTGTATTTCCTAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TTTTTCTACAATGAAGATGAATTCCTTGTATAAAAATAAGAAAAGAAATTAATCTTGAGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GGCCCTTGGCCCAGCCCCACCCCTTCCCTTT-ATCCTGCCACTGTCATATGCTACTTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        601 CAAAGCCACTGAGGAGGCAGGCTGTGGTGTGTGTGTGGGGTGGAATCTCTGGGTAAGGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DB 3; Length 1648;
                                                                                                                                                                                                                                                                                    /organism="Homo sapiens"
/mol_type="mRNA"
/mol_type="mRNA"
/clone="IMAGE:3447369"
/tissue type="Placenta, choriocarcinoma"
/clone_IIb="NIH_MGC_10"
/lab hose="Placenta"
/note="Vector: pCMV-SPORT6"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           11; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 1568.4;
Pred. No. 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local Similarity 99.2%;
Matches 1597; Conservative 0
                                                                                                                                                                                                                                                                         1. .1648
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1194
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1314
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1374
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1434
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1494
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1554
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              955
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1074
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        421
                                                                                                                                                                                                                                                        FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                     ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           bcu00945
Homo sapiens interleukin 1 family, member 5 (delta), mRNA (cDNA clone IMAGE:3447369), with apparent retained intron.
BC000945
                                                       2339
                                                                                                                              2399
                                                                                                                                                                                                    2459
                                                                                                                                              2412 CAATCTATGGCTCACTCGCTCTGGGGGGAAGCTAGCTGCCATGCTATGAGCAGGCCTA 2471
                                                                                                                                                                                                                                                                         2519
                  AAGTIGICITIGIGA-CCAATAGAATATGGCAGAAGTGATGGCATGCCACTICCAAGATT 2351
                                                                                       2472 TAAAGAGACTTACGTGGTAAAAAATGAAGTCTCCTGCCCACAGCCACATTAGTGAACCTA 2531
                                                                                                                                                                                                                                                                                        2532 GAAGCAGAGACTCTGTGAGATAATCGATGTTTGTTTTTTAAGTTGCTCAGTTTTGGTCT 2591
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Strausberg, R. Direct Submission Submission Submits of Health, Mammalian Submitted (16-NCV-2000) National Institutes of Health, Mammalian Gene Collection (MGC), Cancer Genomics Office, National Cancer Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590,
                                                       2340 CAATCTATCTTGGCTCACTCGCTCTGGGGAAGCTAGCTGCCATGCTATGAGCAGGCCTA
                                                                                                                                                                                                2400 TAAAGAGACTTACGTGGTAAAAATGAAGTCTCCTGCCCACAGGCCACATAGTGAACCTA
                                                                                                                                                                                                                                                                       GAAGCAGAGACTCTGTGAGATAATCGATGTTTGTTGTTTTAAGTTGCTCAGTTTTGGTCT
 NIH-MGC Project URL: http://mgc.nci.nih.gov
On Jul 12, 2001 this sequence version replaced gi:13937574.
Contact: MGC help desk
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: ATC
CDNA Library Preparation: Life Technologies, Inc.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Proc. Natl. Acad. Sci. U.S.A. 99 (26), 16899-16903 (2002)
22388257
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               numan and mouse cDNA sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            BC000945.2 GI:14705316
                                                                                                                                                                                                                                                                                                                                            2520 AACTTGTTATGCAG 2533
                                                                                                                                                                                                                                                                                                                                                              2592 AACTTGTTATGCAG 2605
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Homo sapiens (human)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (bases 1 to 1648)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Homo sapiens
                                                       2280
                                                                                                                                                                                                                                                                       2460
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                JOURNAL
MEDLINE
PUBMED
REFERENCE
AUTHORS
TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 2
BC000945
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                REMARK
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TITLE
                    셤
                                                     ઠે
                                                                                 셤
                                                                                                                      ò
                                                                                                                                                         ద
                                                                                                                                                                                                ઠે
                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                     a
                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                       셤
```

9

7

Gaps 5; 1133

120

1373

1433

Catarrhini; Hominidae; Homo

us-09-617-720a-1.rst

```
Genoscope - Centre National de Sequencage
2 rue Gaston Cremieux, CP 5706 - 91057 EVRY cedex - FRANCE
Email: sequenceGenoscope.cns.fr, Web : www.genoscope.cns.fr
1st strand cDNA was primed with a NotI-oligo(dT) primer. Five prime
end enriched, double-strand cDNA was digested with Not I and cloned
into the Not I and EcoR V sites of the pCMVSPORT 6 vector. Library
was normalized. Library was constructed by Life Technologies, a
division of Invitrogen. This sequence belongs to sequence cluster
                                                        Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
                                                                                                                                                                                                                                                                                                                                                                                                              For more information about this cluster, see http://www.genoscope.cns.fr/cdna?s=CSODIO13AA04NP1&c=1383.f. Location/Qualifiers
                                                                                            1 (bases 1 to 1140)
Li, W.B., Gruber, C., Jessee, J. and Polayes, D.
Hall-length cDNA libraries and normalization
Unpublished (2001)
On Peb 16, 2001 this sequence version replaced gi:31292372.
                                                                                   Mammalia; Eutheria; Primates;
                                                                                                                                                                                                           Contact: Genoscope
                                           sapiens
                                                                                                                                                                                                                                                                                                                                                                                                   1383.£
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1879
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1699
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1759
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1819
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1639
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           894
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
KEYWORDS
SOURCE
ORGANISM
                                                                                                    REFERENCE
AUTHORS
TITLE
JOURNAL
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2453
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2213
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2273
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2333
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2393
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1499
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2513
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2153
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            graccaaagrigicrirgiga-ccaaragaararggcagaagrgarggcargccacricc 1319
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1973
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1020
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2033
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1793
                                                                                                                                                                                                                                                                             1853
                                                                                                                                                                                                                                                                                                                                                                1913
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1080
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1733
                                                                                                                                                     780
                                                                                                                                                                                                                                   840
                                                                                                                                                                                                                                                                                                                       900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ceccecancharerresereacreseresessasaserasereseraterareas
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GGCCTATAAAGAGACTTACGTGGTAAAAATGAAGTCTCCTGCCCACAGCCACATTAGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GTACCAAAGTTGTCTTTGTGACCCAATAGAATATGGCAGAAGTGATGGCATGCCACTTCC
                                                                                                                                                                                                                                                                           ATGTAGTTAGGTTCAAGGTCATGCTGGATGAAGGTAGACCTAAATTTCAATATGACTG
                                                                                                                                                                                                                                                                                                            CAACCATCAGAAGCTTGGAAGAAGAATGAATTCTTCCCTAGAGGCTTTAGAGGAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TTTCGGCTGTTTTAAGCCACCAAGGATAATTGGTTACAGCAGCTCTAGGAAACTAATACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AATTCACATCCTTCTTGGAATCTCTGTGTGTTTTATTTGGAGATAAGGTCTCTGCAG
                                                                                                                                                                                                                      AATTCACATCCTTCTTGGAATCTCAGTCTGGGGTTATTTTGGAGATAAGGTCTCTGGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                               AAGATGAAGGCAGAGATCGGAGTTTTGCAGCCACAAGCTAAGAAACACCCAAGGATTGTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         961 AAGATGAAGGCAGAGATCGGAGTTTTGCAGCCACAAGCTAAGAAACACCAAAGGATTGTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CAACCATCAGAAGCTTGGAAGAGGCAAAGAAGAATTCTTCCCTAGAGGCTTTAGAGGGAT
                                              regrera de la recensión de la constant de la recensión de la constant de la 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TGGTCTAACTTGTTGCAGCAATAGATAAATAATATGCAGAGAAAAGAGA 2563
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2514
                                                                                                                                                                                                                                                                                                                                                                                                                                                        1914
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1081
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1141
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2154
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2214
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1261
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2274
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1320
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2334
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1380
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2394
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2454
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1974
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1021
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2034
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2094
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1201
                                                                                                                 1674
                                                                                                                                                                                                1734
                                                                                                                                                                                                                                          781
                                                                                                                                                                                                                                                                                    1794
                                                                                                                                                                                                                                                                                                                           841
                                                                                                                                                                                                                                                                                                                                                                     1854
                                                                        661
                                                                                                                                                                                                                                                                                                                                                                                                              901
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      염장
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                               g
                                                                                                         ò
                                                                                                                                                     유
                                                                                                                                                                                              ò
                                                                                                                                                                                                                               ద
                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
```

/mol type="mrxn" orp. or collection of the provided by the pro

organism="Homo sapiens"

```
1818
                                                                                                                                                                                                                                                                                                                                                                              1878
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1998
                                                                                                                                                                                                                                                                                                                                                                                                                                           1938
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1999 AAAGAAGAATTCTTCCCTAGAGGCTTTAGAGGGATAACGGCTCTGGAAACCTTAATCT 2058
                                                                                                                                                                                       1698
                                                                                                                                                                                                                                                     1758
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       595
                                                                                                                                                                                                                                                                                                                                                                                                           655
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     535
                                                                                                                                                      895
                                                                                                                                                                                                                      835
                                                                                                                                                                                                                                                                                   775
                                                                                                                                                                                                                                                                                                                                                715
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1939 TGCAGCCACAAGCTAAGAAACACCAAGGATTGTGGCAACCATCAGAAGCTTGGAAGAGGC
                                                                                                                                                                                                     GTCTGTGAGTTTATTTGGAGATAAGGTCTCTGCAGATGTAGTTAAGTTAAGACAAGGTCAT
                                                                                                                                                                                                                                                                                                                                                                                              1013 GKTKGTIGTAGTAGTGATCA-GAAACAGATCTCAGCAAAGCCACTGAGGAGGAGGCTGTG
                                                                                                                                            ATTCTTTCCTAGAAGGATCACAGCCCCTGGGATTCCAAGGCATTGGATCCAGTCTTAAG
                                                                                                                                                                                                                                                     AAGGCTGCTGTACTGGTTGAATTGTGTCCCCCTCAAATTCACATCCTTCTTGGAATCTCA
                                                                                                                                                                                                                                                                      834 AAGGCTGCTACTGGTTGAATTGTGTCCCCCTCAAATTCACATCCTTCTTGGAATCTCA
                                                                                                                                                                                                                                                                                                                                              774 crcricricacirrarirrecagaraacercriccacarcractractraacacaacearcar
                                                                                                                                                                                                                                                                                                                                                                               GCTGGATGAAGGTAGACCTAAATTCAATATGACTGGTTTCCTTGTATGAAAAGGAGAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                           CACAGAGACAGAGGAGACGCGGGGAAGACTATGTAAAGATGAAGGCAGAGATCGGAGTTT
                                                              GTTGGTTGTAGTAGTGATCAGGAAACAGATCTCAGCAAAGCCACTGAGGAGGAGGCTGTG
                                                                                                                          1579 CTGAGTTTGTGTGGGTGGAATCTCTGGGTAAGGAACTTAAAGAACAAAAATCATCTGGTA
                               Gaps
                               7
Length 1140;
                               Indels
Score 980.2; DB 1;
Pred. No. 3.2e-242;
3; Mismatches 6;
    38.2%;
98.9%;
                     Best Local Similaria, Matches 1004; Conservative
                   Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          8
```

EST 05-APR-2004

AL570964
AL570964 Homo sapiens PLACENTA COT 25-NORMALIZED Homo sapiens cDNA clone CS0DI013YA07 3-PRIME, mRNA sequence.
AL570964

GI:46237085

AL570964.3

RESULT 3 AL570964/c LOCUS DEFINITION ACCESSION VERSION

8 B

ճ ጅ

요 ò 요 ઠે 요 ઠે 셤 ò 셤 ઠે 셤 ઠે 용

```
/gex="male"
/dev stage="newborn infant"
/lab host="E. coli Solk"
/lab host="E. coli Solk"
/clone lib="Katze MMPL2"
/clone lib="Katze MMPL2"
/clone lib="Yatze libe"
/clone libe"
/cl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1459
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1518
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1578
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1816
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1637
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AATTC-TITCCTAGAAGGATCACAGCCCCTGGGATTCCAAGGCATTGGATCCAGTCTTA 1696
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AGAAGGCTGCTGTACTGGTTGAATTGTGTCCCCCTCAAATTCACATCCTTCTTGGAATCT 1756
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ATCCTGGATGAAGGTAGACCTAAATTCAATATGACTGGTTTCCTTGTATGAAAAGGAGAG 1876
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GACACAGAGACA----GAGGAGACGCGGGGAAGACTATGTAAAGATGAAGGCAGAGATC 1931
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2051
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TTAATCTCAGACTTCCAGCCTCCTGAACGAAGAATAAATTTCGGCTGTTTTAAGCC 2111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GICTCCTCGTGTTTACATTCTGTGTGTGCCCTCCCACAATGTACCAAAGTTGTCTTG 2231
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GGAGTTTTGCAGCCACAAGCTAAGAAACACCAAGGATTGTGGCAACCATCAGAAGCTTGG 1991
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ACCAAGGATAATTGGTTACAGCAGCTCTAGGAAACTAATACAGCTGCTAAAATGATCCCT 2171
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       601 GGAGTGATGCGGCCACAAGAAGCCCAAGGATTGTGGGCAACCATCAGAAGCTTGG 660
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               661 AAGAGGCAAAGAATTCTTCCTTAGAGCTTTTAGAGGGATCACGGCTCTGCTGAAACC 720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      541 GACACAGAGACACAGAGGAGATGCAGGGAAGAAGACTATGTAAAGACGAAGGCAGAGATA 600
                                                                                                                                                                                                                                                                                                                                                                                                                                                      9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          61 TGTATAATAACAAGAAAAGAAATTAATCTTGAGGTAACCAGAGTAGACATCATCTGAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TGTCCTCAGCCTCCAATTCCCCAGAG-TAAATTCAAATTGAAATCGAGCTCTGCTGCTCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GTTGGTTGTAGTAGTGATCAGGAAACAGATCTCTCAGCAAAGCCACTGAGGAGGAGGCTGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         241 ATGAGTTTGTGGGCTGGAATCTCCTGGGTAAGGAACTTAGAGAACAAAAATCATCTGGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              481 ATGCTGGATGAAGGTAAACCTAAATTCAATATGACTGGTATCCTTGTATGAAAAGGAGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAGAGGCAAAGAAGTTCTTCCCTAGAGGCTTTAGAGGGATAACGGCTCTGCTGAAACC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TTAATCTCAGACTTCTAGCCTCCTGAATGAAGAAAGAATAAATTTCGACTGTTTTAAGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AATTCTTTTCCTAGAAGGATCACAGACCCTGGGATTGCAAGGCTTGGGATCCAGTCTCTA
                                                                                                                                                                                                                                                                                                                                                                                                 1340 CTTTAATTCTGTTAATTTATCTGTATTTCCTAATTTTTCTACAATGAAGATGAATTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 chritaarichtriaariratchecarriccraariritchaceareaagarcaachec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1400 IGTATAAAATAAGAAAAGAAATTAATCTTGAGGTAAGCAGAGGAGACATCATCTCTGAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CTGAGTTTGTGTGGCTGGAATCT-CTGGGTAAGGAACTTAAAGAACAAAAATCATCTGGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                               8
                                                                                                                                                                                                                                                                                          Length 1080
                                                                                                                                                                                                                                                                                                                                               Indels
                                                                                                                                                                                                                                                                                       Query Match 28.5%; Score 731.6; DB 7; Best Local Similarity 89.6%; Pred. No. 7.8e-178; Matches 833; Conservative 0; Mismatches 89;
'db_xref="taxon:9544"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1460
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1697
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1519
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1579
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1638
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1757
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1817
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1877
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1932
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2052
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2112
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2172
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               721
                                                                                                                                                                                                                                                                                                                                                                                                       ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          임
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    8
                                                                                                                                                                                                                                                                                            2238
                                                                                                                                                                                                                                                                                                                                                                                                    2298
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2358
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2418
                                                                                                                                                                                2119 ATAATTGGTTACAGCAGCTCTAGGAAACTAATACAGCTGCTAAAATGATCCCTGTCTCCT 2178
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CK232552 1080 bp mRNA linear EST 09-DEC-2003 LLUWIGEN MCQ 4234 Katze_MMPL2 Macaca mulatta cDNA 5' similar to human IL1F5 (H8.207224), mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2419 AAAAATGAAGTCTCCTGCCCACAGCCACATTAGTGAACCTAGAAGCAGAGACTCTGTGAG 2478
                                                                                                                                                                                                                                                                                                                                               296
                                                                                                                                                                                                                                                                                                                                                                                                                                                         236
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       235 AGCTICTACTIGAGCCCTCTCTCTGCCACCCACGCCCCCAAICTAICTIGGCTCACT 176
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              175 CGCTCTGGGGGAAGCTACCTTCCATGCTATGAGCAGCCTATAAAGAGACTTATGTGGTA 116
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Cercopithecidae; Cercopithecinae; Macaca.

( Dasses I to 1080)

Katze, M.G., Thomas, M., Korth, M., Iadonato, S.P. and Magness, C.L. Large-scale Rhenus Macaque cDNA Sequencing

Unpublished (2003)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  26
                      AAAGAAGAATTCTTCCCTAGAGGCTTTAGAGGGATAACGGCTCTGCTGAAACCTTAATCT
                                                                           2059 CAGACTTCCAGCCTCCTGAACGAAGAATAAATTTCGGCTGTTTTAAGCCACCAAGG
                                                                                                       CGTGTTTACATTCTGTGTGTGTCCCCTCCCACAATGTACCAAAGTTGTCTTTGTGACCCA
                                                                                                                                                                                                                                                                                                                        354 CGTGTTTACATTCTGTGTGTGTCCCCTCCCAATGTACCAAAGTTGTCTTTGTGA-CCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                      295 ATAGAATATGGCAGAAGTGATGGCATGCCACTTCCAAGATTAGGTTATAAAAGACACTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CGCTCTGGGGGAAGCTAGCTGCCATGCTATGAGCAGGCCTATAAAGAGACTTACGTGGTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      115 AAAATGAAGTCTCCTGCCCACAGCCACATTAGTGAACCTAGAAGCAGAGACTCTCTGTGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    414 ATAATTGGTTATGGCAGCTCTAGGAAACTAATACAGCTGCTAAAATGATCCCTGTCTCCT
                                                                                                                                                                                                                                                                                                                                                                                                    2239 ATAGAATATGGCAGAAGTGATGGCATGCCACTTCCAAGATTAGGTTATAAAAGACACTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2299 AGCTICTACTIGAGCCCTCTCTCTGCCACCCACCGCCCCAATCTATCTTGGCTCACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   bases. Assembles in contig w/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           98134,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Email: comagnesseillumigen.com
Sequenced on 2003.12.02.777 Q20 bases. Assembles
member(s). Contig contains 1 (0%) lib members.
PCR PRimers.
PCRMARD: CCCTCACTAAAGGGAACAAAA
BACKWARD: CACTATAGGGCAATTGGGTA
Insert Length: 1080 Std Brror: 0.00
Plate: CL000050 row: B column: 10
Seq primer: CCCTCACTAAGGGAACAAAA
POLYA=Yes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ΜĀ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Illumigen Biosciences Inc.
2203 Airport Way S, Suite 450, Seattle,
Tel: 2063780400

    .1080
    /organism="Macaca mulatta"
/mol_type="mRNA"
/strain="Indian"

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Macaca mulatta (rhesus monkey)
Macaca mulatta
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CK232552.1 GI:39638910
EST.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Contact: C. Magness
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Fax: 2063780408
                                                                                                                                                                                                                                                                                          2179
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2359
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         REFERENCE
AUTHORS
TITLE
JOURNAL
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 4
CK232552
LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FEATURES
```

셤

à

유

```
EST 23-JAN-2003
                                                                                                                                                                                                                                                                                                                                                        612
                                                                                                                                                                                                                                                                                                                                                                                                                                                     672
                                                                      433
                                                                                                                  420
                                                                                                                                                               493
                                                                                                                                                                                                               480
                                                                                                                                                                                                                                                                                                            540
                                                                                                                                                                                                                                                                                                                                                                                                       900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             731
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      780
                                                                                                                                                                                                                                                              553
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        791
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     847
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Enkaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi, Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.

1. (bases 1 to 750)

Ebert, L., Heil, O., Hennig, S., Neubert, P., Partsch, E., Peters, M., Radelof, U., Schneider, D. and Korn, B.

Human UnigeneSet - RZPD3

Contact: Ina Rolfs

RZPD Deutsches Ressourcenzentrum fuer Genomforschung GmbH

In Neuenhaimer Feld 580, D-69120 Heidelberg, Germany
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          This clone is available royalty-free from RZPD;
contact RZPD (clone@rzpd.de) for further information. Seq primer:
M13r, Primer sequence: TTTCACACAGGAACAGCTATGAC.
Location/Qualifiers
1. .750
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CACGTCTGACTTAGTGGGCA-CTGACCACTTTGTCTTCTGGTTCCCAGTTTGGATAAATT
                                                                                                                                                                                                                                                                                                                                       554 TCCAGCAGTGTGACTAGGCCAACGTG-CCCCCCAGAACTCCCTGGGCAGAGCCAGGTCGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                     CTGAGATTTTGGAGCTCAGTCCAGGGTCCTCCCCCACTGGATGGTGCTACTGCTGTGGAAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CTTGT-AAAACCATGTGGGGTAACTGGGRATAMA ---TGAAAAGATTCTGTGGGGGTGGG
                          GTGCCAAGGAATCCAAGAGCTTCACCTTCTACCGGCGGACATGGGGCTCACCTCCAGCT
                                                     374 GIGCCAAGGAAICCAAGAGCIICACCIICTACCGGCGGGACAIGGGGCICACCICCAGCI
                                                                                                                                                                                                                                                                                                            TCCAGCAGTGTGACTAGGGCAACGTGCCCCCCCAGAACTCCCTGGGCAGAGCCAGCTCGG
                                                                                                                                                                                                                                                                                                                                                                                                         GTGAGGGGTGAGTGGAGGAGACCCATGGCGGACAATCACTCTTTCTGCTCTCTCAGGACCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CAGGTCTGACTTAGTGGGCACCTGACCACTTTGTCTTCTGGTTTCCCAGTTTGCATAATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CTGAGATTTGGAGCTCAGTCCACGGTCCTCCCCCACTGGATGCTACTGCTGTGGAAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CTTGTAAAAACCATGTGGGGTAAACTGGGAATAACATGAAAAGATTTCTGTGGGGGTGGG
                                                                                                                     TCGAGTCGGCTGCCTACCCGGGCTGGTTCCTGTGCACGGTGCCTGAAGCCGATCAGCCTG
                                                                                                                                                               434 resagrescrisceracessagerssrrecristscasssrsagescristandecris
                                                                                                                                                                                                               421 TCAGACTCACCCAGCTTCCCGAGAATGGTGGCTGGAATGCCCCCATCACAGACTTCTACT
                                                                                                                                                                                                                                                              494 TCAGACTCACCCAGCTTCCCGAGAATGGTGGCTGGAATGCCCCCATCACAGACTTCTACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RZPD; IMAGP998H07211.
RZPDIB; I.M.A.G.E. cDNA Clone Collection;
Human UnigeneSet - RZPD3 (RZPDLIB NO.972)
http://www.rzpd.de/CloneCards/cgi-
bin/showLib.pl.cgi/response7libNo-972 Contact: Ina Rolfs
bin/showLib.pl.cgi/response7libNo-972 Contact
Heubnerweg 6, D-14059 Berlin, Germany
Tel: +49 30 32639 101
Fax: +49 30 32639 111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BX091500
BX091500 Soares placenta Nb2HP Homo sapiens cDNA clone
IMAGP998H07211 ; IMAGE:142518, mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             BX091500.1 GI:27822499
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GIGGGGAGIGCIGG 795
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Greceerreeres 862
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Homo sapiens (human)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           www.rzpd.de
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        EST.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                673
                        301
                                                                                                                     361
                                                                                                                                                                                                                                                                                                            481
                                                                                                                                                                                                                                                                                                                                                                                                         541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          732
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     792
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               848
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TITLE
JOURNAL
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        BX091500
LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT
                                                          셤
                                                                                                                  Š
                                                                                                                                                       셤
                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                            ઠે
                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                    à
                                                                                                                                                                                                                                                                                                                                                                                                                                              8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Genoscope - Centre National de Sequencage
2 rue Gaston Cremieux, CP 5706 - 91057 EVRY cedex - FRANCE
Email: seqref@genoscope.cns.fr. Web : www.genoscope.cns.fr
1st strand cDNA was ptimed with a NotI-oligo(dT) primer. Five prime
end enriched, double-strand cDNA was digested with Not I and cloned
into the Not I and EcoR V sites of the pCMVSPORT & vector. Library
was normalized. Library was constructed by Life Technologies, a
division of Invitrogen. This sequence belongs to sequence cluster
                                                                                                                                                                                                               EST 25-MAR-2004
                                                                                                                                                                                                           AL545100

AL545100 Homo sapiens PLACENTA COT 25-NORWALIZED Homo sapiens CDNA Clone (SSDI013YA07 5-PRIME, mRNA sequence.
AL545100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /tissue type="PLACENTA COT 25-NORMALIZED"
/clone_lib="Homo sapiens PLACENTA COT 25-NORMALIZED"
/note="lst strand cDNA was primed with a NotI-oligo(dT)
primer. Five prime end enriched, double-strand cDNA was
digested with Not I and cloned into the Not I and EcoR V
sites of the pCMVSPORT 6 vector. Library was normalized."
841 GTCTCCTCGTGTGTTCACATTCTGTGTGTATCCCCTCCCCAATGTACCAGAGTTGGTCTTCC 900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              74 AGGGGAGTCTACACCCCTGTGGAGCTCAAGATGGTCCTKAGTGGGGCGCTGTGCTTCCGAA 133
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TGAAGGACTCGCCATTGAAGGTGCTTTATCTGCATAATAACCAGCTTCTAGCTGGAGGGC 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       134 TGAAGGACTCGGCATTGAAGGTGCTTTATCTGCATAATAACCAGCTTCTAGCTGGAGGGC 193
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TGCATGCAGGGAAGGTCATTAAAGGTGAAGAGATCAGCGTGGTCCCCAATCGGTGGCTGG 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  194 recarecadeseaagercarraaagergaagarcagegreercecaarcgergecreg 253
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ATGCCAGCCTGTCCCCCGTCATCCTGGGTGTCCAGGGTGGAAGCCAGTGCCTGTCATGTG 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             254 ATGCCAGCCTGTCCCCCGTCATCCTGGGTGTCCAGGGTGGAAGCCAGTGCCTGTCATGTG 313
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             241 GGGTGGGGCAGGAGCCGACTCTAACACTAGAGCCAGTGAACATCATGGAGCTCTATCTTG 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 AGGGGAGTCTACACCCTGTGGAGCTCAAGATGGTCCTGAGTGGGGCGCTGTGCTTCCGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  For more information about this cluster, see http://www.genoscope.cns.fr/cdna?s=CSODI013AA04QP1&c=1383.f. Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 (bases 1 to 985)
Li,W.B., Gruber,C., Jessee,J. and Polayes,D.
Full-length cDNA libraries and normalization
Unpublished (2001)
On Feb 15, 2001 this sequence version replaced gi:31266936.
Contact: Genoscope
                                                                                                                                                                                                                                                                                                                                                                                                       Craniata; Vertebrata; Eutele
Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length 985;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 712.6; DB 1;
Pred. No. 6.4e-173;
4; Mismatches 18;
                                                                                          901 TGACTAATAAATAATGCCAAAAGTGATGG 930
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      organism="Homo sapiens"
                                              TGACCCAATAGAATATGGCAGAAGTGATGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /mol_type="mRNA"
/db_xref="taxon:9606"
/clone="CS0DI013YA07"
                                                                                                                                                                                                                                                                                                                                                                              Homo sapiens
Bukaryota, Metazoa, Chordata,
Mammalia, Butheria, Primates,
                                                                                                                                                                                                                                                                                                          AL545100.3 GI:45745585
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   27.8%;
larity 96.5%;
Conservative
                                                                                                                                                                                                                                                                                                                                                        Homo sapiens (human)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Best Local Similarity
Matches 767; Conser
                                              2232
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   source
                                                                                                                                                                                                                                   DEFINITION
                                                                                                                                                                                                                                                                                                                                                                              ORGANISM
                                                                                                                                                                                                                                                                               ACCESSION
VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                              REFERENCE
AUTHORS
TITLE
JOURNAL
COMMENT
                                                                                                                                                                 RESULT 5
AL545100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DRIGIN
```

음 . £

g

δ 셤 ઠે g à g ઠે

```
BI089828 726 bp mRNA linear EST 20-JUN-2001
602855071F1 NIH_MGC_10 Homo sapiens CDNA clone IMAGE:4996432 5',
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           279
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          219
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /clone lib="NUH MGC 10"
/note="Organ: cervix; Vector: pCMV-SPORT6; Site_1: NotI;
/note="Organ: cervix; Vector: pCMV-SPORT6; Site_1: NotI;
Site_2: SalI; Cloned unidirectionally. Primer: Oligo dT.
Average insert size 1.5 kb. Library prepared by Life
Technologies."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          159
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             339
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         360
                                                                                                                                                                                                                                                                                                         E 1 (bases 1 to 726)

S NIH-MGC http://mgc.nci.nih.gov/.

NIH-MGC http://mgc.nci.nih.gov/.

National Institutes of Health, Mammalian Gene Collection (MGC)

AL Unpublished (1999)

Contact: Robert Strausberg, Ph.D.

Email: cgapbs.remail.nih.gov

Tissue Procurement: Arco

CDNA Library Preparation: Life Technologies, Inc.

CDNA Library Arrayed by: Incyte Genomics, Inc.

DNA Sequencing by: Incyte Genomics, Inc.

Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at:

http://image.llh.gov

Plate: LLAM11021 row: n column: 17

High quality sequence stop: 709.

Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ACATGGGGCTCACCTCCAGCTTCGAGTCGGCTGCCTACCCGGGCTGGTTCCTGTGCACGG 399
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       66
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 9
                                                                                                                                                                                                                                                                           Vertebrata; Euteleostomi;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GTGGGGCGCTGTGCTTCCGAATGAAGGACTCGGCATTGAAGGTGCTTTATCTGCATAATA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Greececciorectricegaareaacacreecarreaaccrerraara
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          100 ACCAGCTTCTAGCTGGAGGCTGCATGCAGGGAAGGTCATTAAAGGTGAAGAATCAGCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                61 ACCAGCTTCTAGCTGGAGGGCTGCATGCAGGGAAGGTCATTAAAGGTGAAGAGATCAGCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             160 TGGTCCCCAATCGGTGGCTGGATGCCAGCCTGTCCCCCGTCATCCTGGGTGTCCAGGGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  121 TGGTCCCCAATCGGTGGCTGGTGCCAGCCTGTCCCCCGTCATCCTGGGTGTCCAGGGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GAAGCCAGTGCCTGTCATGTGGGGGTGGGGCAGGAGCCGACTCTAACACTAGAGCCAGTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GAAGCCAGTGCCTGTCATGTGGGGCTGGGGCAGGAGCCGACTCTAACACTAGAGCCAGTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ACATCATGGAGCTCTATCTTGGTGCCAAGGAATCCAAGAGCTTCACCTTCTACCGGCGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Eutele
Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.
1 (bases 1 to 726)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              5.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length 726;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 683.8; DB 4;
Pred. No. 1.7e-165;
0; Mismatches 12;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /clone="IMAGE:4996432"
/cell_line="MGC36"
/lab_host="DH108"
                                                                                                                                           mRNA sequence. _ _ BI089828
BI089828.1 GI:14508158
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ch 26.7%;
al Similarity 98.1%;
713; Conservative (
719 TGCAGAGAAGAGA 732
                                                                                                                                                                                                                             Homo sapiens (human)
Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             280
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             220
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  340
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         301
                                                                                                                                                                                    VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                       DEFINITION
                                                                                                                                                                                                                                                                                                              REFERENCE
AUTHORS
TITLE
JOURNAL
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Matches
                                                                                                                                                                   ACCESSION
                                                            RESULT 7
BI089828
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DRIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ծ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Dp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       음 상 음
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                             5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2369
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2429
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1830 GTAGACCTAAATTCAATATGACTGGTTTCCTTGTATGAAAAGGAGGACACAGAGACAG 1889
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1890 AGGAGACGCGGGGAAGACTATGTAAAGATGAAGGCAGAGATCGGAGTTTTGCAGCCACAA 1949
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1950 GCTAAGAAACACCAAGGATTGTGGCAACCATCAGAAGCTTGGAAGAGGCAAAGAAGAATT 2009
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2010 CTTCCCTAGAGGCTTTAGAGGGATAACGGCTCTGCTGAAACCTTAATCTCAGACTTCCAG 2069
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2010 CCTCCTGAACGAAGAATAAATTTCGGCTGTTTTAAGCCACCAAGGATAATTGGTTA 2129
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CAGCAGCTCTAGGAAACTAATACAGCTGCTAAAATGATCCCTGTCTCCTCGTGTTTACAT 2189
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2190 TCTGTGTGTGTCCCCTCCCACAATGTACCAAAGTTGTCTTTGTGACCCAATAGAATATGG 2249
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2250 CAGAAGTGATGGCATGCCACTTCCAAGATTAGGTTATAAAAGACACTGCAGCTTCTACTT 2309
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CTCCTGCCCACACACTTAGTGAACCTAGAAGCAGAGACTCTGTGAGATAATCGATGT 2489
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       538
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             60 AGGAGACGCGGGGAAGATGTAAAGATGAAGGCAGAGAGATCGGAGTTTTGCAGCCACAA 119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 179
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    239
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    299
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       359
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        360 TCTGTGTGTGTCCCCTCCCACAATGTACCAAAGTTGTCTTTGTGA-CCAATAGAATATGG 418
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          478
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             539 AAGCTAGCTGCCATGCTATGAGCAGGCCTATAAAGAGACTTACGTGGTAAAAAATGAAGT 598
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                658
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               659 TIGNITGNITIAAGIIGCICAGIITIGGICIAACIIGNIAIGCAGCAATAGAIAAATAA 718
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            59
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 GTAGACCTAAATT-AATATGACTGGTTTCCTTGTATGAAAAGGAGAGACACAGAGACAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  120 GCTAAGAAACACCAAGGATTGTGGCAACCATCAGAAGCTTGGAAGAGGCAAAGAATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   180 CTTCCCTAGAGGCTTTAGAGGGATAACGGCTCTGCTGAAACCTTAATCTCAGACTTCCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   240 CCTCCTGAACGAAGAAATAAAATTTCGGCTGTTTTAAGCCACCAAGGATAATTGGTTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      300 CAGCAGCICTAGGAAACTAATACAGCTGCTAAAAATGATCCCCTGTCTCCTCGTGTTTACAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           419 CAGAAGTGGTGGCAGTTCCAAGATTAGGTTATAAAAGACACTGCAGCTTCTACTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GAGCCCTCTCTCTCTGCCACCCACCCCCCAATCTATCTTGGCTCACTCGCTCTGGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         479 GAGCCCTCTCTCTCTCTGCCACCGCCCCCAATCTATCTTGGCTCACTCGCCCTGGGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             599 CTCCTGCCCACAGCCACATTAGTGAACCTAGAAGCAGAGACTCTGTGAGATAATCGATGT
                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                            5;
                                                                                                                                                                                                                                                                                                                                                                                                tch 27.6%; Score 707; DB 5; Length 750; al Similarity 99.3%; Pred. No. 1.7e-171; 729; Conservative 0; Mismatches 3; Indels
                                                            /clone="IMAGp998H07211 ; IMAGE:142518"
  sapiens"
                 [_type="mRNA"
xref="taxon:9606"
'organism="Homo
                                                                                  /sex="Female
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TGCAGAGAAGAGA 2563
                                                                                                                                                                                                                                                                                                                                                                                                                      Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2550
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2130
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2310
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2370
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2430
                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                          Matches
                                                                                                                                                                                                                                                                                                                                                           ORIGIN
```

ઠ 셤 ઠે g ò g ò g ઠે 셤 ઠે 셤 ð g 8 g ò g ઠે ద ઠ a ઠે 요

g 8 8 S

ò

g ò 셤 ò 셤 ò 셤 ò 8

```
CA310393 TO TO2 bp mRNA linear EST 05-AUG-2004 UI-H-FTI-big-n-18-0-UI.s1 NCI CGAP FT1 Homo sapiens cDNA clone UI-H-FTI-big-n-18-0-UI 3', mRNA sequence.
CA310393.1 GI:24473447
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1169
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1229
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1289
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1349
                                                                                                                                                                                                                                                                                                                                                             1049
                                                                                                                                                                                                                                                                                                                                                                                                                                   GGAGGTGGTGATGTCAGAAGAATGGTTCGAGCTCAGAAGATAAAAGATAAGTAGGGTAT 1109
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TGTTAATTTATCTGTATTTCCTAATTTTTTTTACAATGAAGATGAATTCCTTGTATAAAA 1409
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1410 TAAGAAAAGAAATTAATCTTGAGGTAAGCAGAGCAGACATCATCTCTGATTGTCCTCAGC 1469
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1530 TAGTGATCAGGAAACAGATCTCAGCAAAGCCACTGAGGAGGAGGAGGCTGTGCTGAGTTTGTG 1589
                                 7.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     517
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    397
                                                                     818
                                                                                                     817
                                                                                                                                                                                                                                                                                                                                                                                               577
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            457
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        396 TTTATTTTAATTAAAAGACACCTATTCATATTTTCTTTATACAAAAAAGTCTGCAACAG 337
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             277
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     217
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        157
                                                                                                                                             875
                                                                                                                                                                              757
                                                                                                                                                                                                                932
                                                                                                                                                                                                                                                    697
                                                                                                                                                                                                                                                                                        989
                                                                                                                                                                                                                                                                                                                          637
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                97
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      37
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TITACITICAATIGIAGCAATGICAGGGGGGGGGGGATATAGGTGATITITITATTIC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TGTTAATTTTATCTGTATTTTTCTTACAATGAAGATGAATTCCTTGTATAAAAA
                                                                                                                                             CTGACAAGTGTTACCC--TGAGCCCGCAGGCCAACCCATCCCCAGTTGAGCCTT-ATAG
                                                                                                                                                                                CCGCCAAAGGGTCCCCCTTAAGCCCCGCGGTTCACCCCCATCCCCAAGTGAACCCTAATAG
                                                                                                                                                                                                                                                                                                           GGTCATAGAGTCAGGGGTTCTATGGCCCTTGGTCCAGCCCCCACCCCCTTCCCTTTAATC
                                                                                                                                                                                                                                                                                                                                                               CTGCCACTGTCATATGCTACCTTTCCTATCTCTTCCTCATCATCTTGTTGTGGGCATGA
                                                                                                                                                                                                                                                                                                                                                                                GCTGATCCTCTTTTAAAAACCCAAGATACAATCAAAATCCCAGATGCTGGTCTCTATTCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CATGAAAAAGTGCTCATGACATATTGAGAAGACCTACTTACAAAGTGGCATATATTGCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       216 TAAGAAAATTAATCTTGAGGTAAGCAGAGAGAGACATCATCTCTGATTGTCCTCAGC
                                                                     AAAAGATTTCTGTGGGGGGGGGGGGGGGGGGGGGGGAATCATTCCTGCTTAATGGTAA
                                                                                                       AAAATTTTCTTGGGGGGTTGGGGTGGGAAAAAAAGGACCAACATTCCCGGGTTAAGGCCA
                                                                                                                                                                                                                                                                                        GGTCATAGAGTCA - GGGATCTATGGCCCTTGGCCCAGCCCC - - ACCCCCTTCCCTTTATC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GCTGATCCTCTTTTAAAAACCCAAGATACAATCATAATCNCAGATGCTGGTCTCTATTCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TTTATTTTAATTAAAAGATACCTATTTATATATTTCTTTATAGAAAAAGTCTGGAAGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GGTCAGTAGCTCTCCAC-ATGAAGTCCTCTCACT-CACCACTGTGCAGGAGAGGG-AGGT
                                                                                                                                                                                                                                                    GGTCAGTAGCTCTCCCCAACAAGTCCTGTCACTCCACCACTGTGCAGCAAAGGGCAGGT
                                   Gaps
                                   6
 Length 876;
                                   Indels
Score 656.2; DB 5;
Pred. No. 2.5e-158;
0; Mismatches 74;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1590 TGGCTGGAATCTCTGGGTAAGG 1611
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TGACTGCAATCTCTGGGTCAGG
 25.6%;
90.4%;
                                     Conservative
                Local Similarity
nes 779; Conserv
                                                                                                                                                                                816
                                                                                                                                                                                                                                                                                                                            969
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         576
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1230
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 336
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       276
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1470
                                                                                                                                                                                                                                                                                                                                                                                                                                       1050
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1110
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1170
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1290
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1350
                                                                         759
                                                                                                         876
                                                                                                                                             819
                                                                                                                                                                                                                    876
                                                                                                                                                                                                                                                      756
                                                                                                                                                                                                                                                                                          933
                                                                                                                                                                                                                                                                                                                                                               990
                                                                                                                                                                                                                                                                                                                                                                                                   636
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                516
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      456
   Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CA310393/c
LOCUS
DEFINITION
                    Best Loca
Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ACCESSION
VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT
                                                                         ð
                                                                                                       셤
                                                                                                                                           ઠે
                                                                                                                                                                             엄
                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                        엄
                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              \delta
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Genoscope - Centre National de Sequencage
2 rue Gaston Cremieux, CP 5706 - 91057 EVRY cedex - FRANCE
Email: sequencecope.cns.fr, Web : www.genoscope.cns.fr, Web : www.genoscope.cns.fr, Web : www.genoscope.cns.fr, Web is trand cDNA was primed with a NotI-oligo(HT) primer. Five prime end enriched, double-strand cDNA was digested with Not I and cloned into the Not I and EcoR V sites of the pCMVSPORT 6 vector. Library was normalized. Library was constructed by Life Technologies, a division of Invitrogen. This sequence belongs to sequence cluster
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       For more information about this cluster, see http://www.genoscope.cns.fr/cdna?8=CSOBAI018ZD02_CS01644_1&c=1383.f
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 BX350082 BX450082 B76 bp mRNA linear EST 23-APR-2004
BX350082 Homo sapiens PLACENTA COT 25-NORMALIZED Homo sapiens CDNA
clone CSODI013YA07 3-PRIME, mRNA sequence.
                                                                                                                                                                                                                                                        599
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /clone="CSODIO13YA07"
/tissue type="PLACENTA COT 25-NORMALIZED"
/clone=lib="Homo sapiens PLACENTA COT 25-NORMALIZED"
/note="lst strand cDNA was primed with a NotI-oligo(dT)
primer. Five prime end enriched, double-strand cDNA was
digested with Not I and cloned into the Not I and ECOR V
sites of the pcMvSPORT 6 vector. Library was normalized."
   459
                                     420
                                                                         519
                                                                                                         479
                                                                                                                                              579
                                                                                                                                                                                539
                                                                                                                                                                                                                    639
                                                                                                                                                                                                                                                                                          GGTTCCCAGTTTGCATAAATTCTGAGATTTGGAGCTCCAGGGTCCT-CCCCCACTG 698
                                                                                                                                                                                                                                                                                                                             629
                                                                                                                                                                                                                                                                                                                                                               GAIGGIGCIACIGCIGIGGAACCIIGIAAAAACCAIGIGGGGIAAACIGGGAAIAACAIG 758
                                                                                                                                                                                                                                                                                                                                                                                  660 GATGGTGCTACTGCTGTGTGAACCTTGTTAAAACCATGTGGGGTAAACTGGGGAATCACCTG 719
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Eukaryota; Metazoa, Chordata, Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. 1 (Massel to 876)
Li, W.B., Gruber, C., Jessee, J. and Polayes, D. Full-length cDNA libraries and normalization Unpublished (2001)
On May 5, 2003 this sequence version replaced gi:30383464.
   TGCCTGAAGCCGATCAGCCTGTCAGACTCACCCAGCTTCCCGAGAATGGTGGCTGGAATG
                      CCCCCATCACAGAGATTCTACTTCCAGCAGTGAGAGATAGGGCAACGTG-CCCCCAGAACT
                                                                                                                                              CCCTGGGCAGAGCCAGCTCGGGTGAGGGGAGAGGAGACCCATGGCGGACAATCAC
                                                                                                                                                                       CCCTGGGCAGAGCCAGCTCGGGTGAGTGGAGTGGAGAGAGCCATGGCGGACAATCAC
                                                                                                                                                                                                                                                      540 rerererecreteksekececekererekerrikeressekerekerrikarerer
                                                                                                                                                                                                                                                                                                                             GGTTCCCAGTATCGGGATATTCTGAGATTTGGAGCTCAGTCCACGGTCCTACCCCCACTG
                                                                         TCTTTCTGCTCTCAGGACCCCCAGGTCTGACTTAGTGGGCACCTGACCACTTTGTCTTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         BX350082.2 GI:46553560
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Homo sapiens (human)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           .876
                                                                                                                                                                                                                                                                                                                                                                                                                                       765
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         720 AAAAGAT 726
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                         759 AAAAGAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           EST
                                                                                                                                                                                                                                                                                                                             009
                                                                                                                                                                                                                                                                                            640
                                       361
                                                                         460
                                                                                                           421
                                                                                                                                             520
                                                                                                                                                                                480
                                                                                                                                                                                                                    580
                                                                                                                                                                                                                                                                                                                                                                 669
   400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT 8
BX350082/c
LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AUTHORS
TITLE
JOURNAL
COMMENT
```

REFERENCE

PEATURES

ORIGIN

g ò g ò g ò 셤 à g ò ద ò 엄 ò 유 ò g à 셤 ò 셤

ð

```
/ Organism="mino" saplems"
// woll type="mino" saplems"
// woll type="mino" saplems"
// woll type="mino" saplems"
// clone="Ul-FT1-big-n-18-0-UI"
// tissue_type="Alveolar Macrophage"
// dev stage="Adult"
// lab_nost="Ul-H108 (Life Technologies)"
// clone lib="MCI CGAP_FT1"
// note="Organ: Lung; Vector: pT773-Pac (Pharmacia) with a modificad polylinker; Site_1: Book I; Site_2: Not I;
// NCI CGAP_FT1 is a normalized cDNA library constructed
// a pool of BI RNA samples from Alveolar Macrophages
challenged with different treatments. The mRNA samples
were a mixture of these conditions (times refer to
incubations following isolation by bronchoalveolar lavage)
(some normal donor macrophages were cultured in some of
the conditions, other donor macrophages in different
conditions, other donor macrophages in different
conditions, other donor macrophages in different
conditions, other donor macrophages were pooled for library
construction. Control o hours; control 3 hours; Rlebsiella moi 10, 24 hours; Albours;
PMA 10 ng/ml, 3 hours; Rlebsiella moi 10, 24 hours; Abenoviral
wector (AdS CMV eGFP), moi 500, 3 hours; Abenoviral wector
(AdS CMV eGFP), moi 500, 24 hours; Adenoviral
vector (AdS CMV eGFP), moi 500, 24 hours; Adenovira moi 500, 3
hours; At adenovirus moi 500, 24 hours; Adenovirus moi 500, 3
hours; At adenovirus H LPS 24 hours; At adenovirus H LPS 3
hours; At adenovirus H LPS 24 hours; At adenovirus H LPS 3
hours; At adenovirus H LPS 24 hours; At adenovirus H LPS 3
hours; At adenovirus H LPS 24 hours; At adenovirus H LPS 3
hours; At adenovirus H LPS 24 hours; At adenovirus H LPS 3
hours; At adenovirus H LPS 24 hours; At adenovirus H LPS 3
hours; At adenovirus H LPS 24 hours; At adenovirus H LPS 3
hours; At adenovirus H LPS 24 hours; At adenovirus H LPS 3
hours; At adenovirus H LPS 24 hours; At adenovirus H LPS 3
hours; At adenovirus H LPS 24 hours; At adenovirus
normalized according to Bonaldo, Lennon and 
                                                                                                                                                                                                                                                                                                                                                         Contact: Robert Strausberg, Ph.D.
Email: cgapbs-rémail.nih.gov
Tissue Procurement: Dr. Gary W. Hunninghake, U of I
CDNA Library preparation: Dr. M. Bento Soares, University of Iowa
CDNA Library Arrayed by: Dr. M. Bento Soares, University of Iowa
DNA Sequencing by: Dr. M. Bento Soares, University of Iowa
Clone Distribution: Clone distribution information can be obtained
                                                                       Bukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi, Mamaalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.
1 (Dases 1 to 702)
NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
National Cancer institute, Cancer Genome Anatomy Project (CGAP), Umpublished (1997)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           from Dr. M. Bento Soares, bento-soares@ulowa.edu
The following repetitive elements were found in this cDNA
sequence: 1-61, AT_rich#Low_complexity
Seq primer: MI3 FORWARD
POLYA=PS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TISSUE=Human Lung Alveolar Macrophage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1. .702
/organism="Homo sapiens"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TAG_TISSUE=Human TAG_LIB=UI-H-FT1
TAG_SEQ=GGCCATGCCG"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Location/Qualifiers
Homo sapiens (human)
                                          Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        source
                                          ORGANISM
                                                                                                                                                                                                 AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                   JOURNAL
COMMENT
                                                                                                                                                       REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ORIGIN
```

```
697 bp mRNA linear EST 06-DEC-2000
UI-H-BI4-aou-e-01-0-UI.sl NCI_CGAP_Sub8 Homo sapiens cDNA clone
IMAGE:3086280 3', mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GGATCTATGGCCCTTGGCCCCACCCCCTTCCCTTT-ATCCTGCCACTGTCATATG 1005
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CTACCTTTCCTATCTTCCTCATCATCTTGTTGTGGGCATGAGGAGGTGGTGATGTCA 1065
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAACCCAAGATACAATCAAAATCCCAGATGCTGGTCTCTATTCCCATGAAAAGTGCTCA 1185
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
The sequence contained an oligo-dT track that was present in the oligonucleotide that was used to prime the synthesis of first strand cDNA and therefore this may represent a bonsfide poly A tail. cDNA Library Preparation: M.B. Soares Lab Clone distribution: NCI-CGAP clone distribution information can be found through the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                403 CTCCACATGAAGACCTGTCACTCACCACTATGCAGGAGGAGGAGGTGGTCATAGAGTCAG 344
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          343 GGATCTATGGCCCTTGGCCCCAGCCCCACCTTCCTTTAATCCTGCCACTGTCATATG 284
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  283 CTACCTTTCCTATCTCTTCCCTCATCATCTTGTGGGCATGAGGAGGTGCTGATGTCA 224
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            223 GAAGAAATGGCTCGAGCTCCAGAAGATAAAGATAAGTAGGGGTATGCTGATCCTCTTTTAA 164
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              163 AAACCCAAGATACAATCAAAATCCCAGATGCTGGTCTCTATTCCCATGAAAAGTGCTCA 104
                                                                                               584
                                                                                                                                                99/
                                                                                                                                                                                              524
                                                                                                                                                                                                                                                  826
                                                                                                                                                                                                                                                                                                                                               886
                                                                                                                                                                                                                                                                                                                                                                                                                                                 946
                                                                                                                                                                                                                                                                                           rererecacerececiececacaerecrecaaarearrecrecriatraarecraacreaceae 464
                                                                                                                                                                                                                                                                                                                                                                                                TGTTACCCTGAGCCCCGCAGGCCAACCCATCCCCAGTTGAGGCCTTATAGGGTCAGTAGGT 404
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 697)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index
Unpublished (1997)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      I.M.A.G.E. Consortium/LLNL at:
www-bio.llnl.gov/bbrp/image/image.html The following repetitive
702 GCTCTCAGGACCCCCACGTCTGACTTAGTGGGCACCTGACCACTTTGTCTTCTGGTTCCC
                                                   AGTTTGCATAAATTCTGAGATTTGGAGCTCAGTCCAGGGTCCTCCCCCACTGGATGGTGC
                                                                                                                                                                                              TACTGCTGTGGAATCTTGTAANAACCATGTGGGGTAAACTGGGAATAACATGAAAAGATT
                                                                                                                                                                                                                                                  TCTGTGGGGGTGGGGGGGGGGGGGGGGAATCATTCCTGCTTAATGGTAACTGACAAG
                                                                        TACTGCTGTGGAACCTTGTAAAAACCATGTGGGGTAAACTGGGAATAACATGAAAAGATT
                                                                                                                                                                                                                                                                                                                                                  TGTTACCCTGAGCCCCGCAGGCCAACCCATCCCCAGTTGAGCCTTATAGGGTCAGTAGGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1246 GATACCTATTTATATATTTCTTTATAGAAAAA 1278
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GATACCTATTTATATTTTCTTTATAAAAAA 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      BF509095
BF509095.1 GI:11592393
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 sapiens (human)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Homo sapiens
Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1186
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1066
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1126
                                                                                                  642
                                                                                                                                                707
                                                                                                                                                                                                 583
                                                                                                                                                                                                                                                                                                 523
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   947
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     9001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       43
                                                                                                                                                                                                                                                  167
                                                                                                                                                                                                                                                                                                                                                  827
                                                                                                                                                                                                                                                                                                                                                                                                   463
                                                                                                                                                                                                                                                                                                                                                                                                                                                    887
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT 10
BF509095/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                REFERENCE
AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMMENT
```

Query Match 25.2%; Score 644.6; DB 6; Length 702; Best Local Similarity 97.4%; Pred. No. 2.4e-155; Matches 675; Conservative 0; Mismatches 16; Indels 2

Gaps

```
6028556/4F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:4996939 5',
BIO90567
218 AAATGGCTCGAGCTCAGAAGATAAAAGATAAGTAGGGTATGCTGATCCTCTTTTAAAAAC 159
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TGCATGCAGGGAAGGTCATTAAAGGTGAAGATCAGCGTGGTCCCCCAATCGGTGGCTGG 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               285
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          106 AGGGGAGTCTACACCCTGTGGAGCTCAAGATGGTCCTGAGTGGGGCCCTGTGCTTCCGAA 165
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /clone_lib="NIH_MGC_lo"
/note="Organ: cervix; Vector: pCMV-SPORT6; Site_1: NotI;
Site_2: Sall; cloned unibectionally. Primer: Oligo dT.
Average insert size 1.5 kb. Library prepared by Life
                                                                             158 CCAAGATACAATCAAAATCCCAGATGCTGGTCTCTATTCCCATGAAAAAGTGCTCATGAC 99
                                                                                                                                                                               Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 858)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Email: cgapbs-remail.nih.gov
Tissue Procurement: ATCC
CDNA Library Preparation: Life Technologies, Inc.
CDNA Library Preparation: Life Technologies, Inc.
CDNA Library Arrayed by: Incyte Genomics, Inc.
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LLAM1023 row: c column: 20
High quality sequence stop: 670.
Location/Qullifiers

1. .858
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       166 TGAAGGACTCGGCATTGAAGGTGCTTTATCTGCATAATAACCAGCTTCTAGCTGGAGGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TGAAGGACTCGGCATTGAAGGTGCTTTATCTGCATAATAACCAGCTTCTAGCTGGAGGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1 (bases 1 to 858)
NIH-MGC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
Contact: Robert Strausberg, Ph.D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 AGGGGAGTCTACACCCTGTGGAGCTCAAGATGGTCCTGAGTGGGGGGGCGCTGTGCTTCCGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     / Match 24.6%; Score 631.6; DB 4; Length 858; Local Similarity 91.9%; Pred. No. 5.9e-152; nes 689; Conservative 0; Mismatches 59; Indels 2;
                                                                                                                                                                                                                                                                                    CCTATTTATATTTCTTTATAGAAAAA 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /clone="IMAGE:4996939"
/cell_line="MGC36"
/lab_host="DH108"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            BI090567.1 GI:14508897
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             rechnologies.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Homo sapiens (human)
Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      EST.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local Si
Matches 689;
                                                                                                                                                                                                                                                          1250
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    226
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                               DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                    RESULT 11
BI090567
LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            REFERENCE
AUTHORS
TITLE
JOURNAL
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ORIGIN
                                                     ð
                                                                                                  g
                                                                                                                                                     ò
                                                                                                                                                                                            임
                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                               ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          d
                                                                                                                                                                                                                                            /clone lib="NCI CGAP_Sub8"
/note="Vector: pr773D-Pac (Pharmacia) with a modified
polylinker; Site l: Not I; Site 2: Eco RI; NCI CGAP_Sub8
is a subtracted library derived_from NCI CGAP_Sub8
NCI CGAP_Sub8 library had 2: Smilion recombinants. A
single-stranded DNA preparation of NCI CGAP_Sub5 was used
as a tracer in a subtractive hybridization with a driver
comprising: a pool of clones from NCI CGAP_Sub5 (INAGE
clone Ids 2732833-2737415, 3068040-3065191; 25% of the
driver population), a pool of clones from NCI CGAP_Sub4
(INAGE clone Ids 2723832-273236; 25% of the driver
population), NCI CGAP_Sub6 (pool AIF-AJU, INAGE Ids
2728969-2733190; 25% of the driver population),
Subtraction was performed as previously described
[Bonaldo, Lennon & Soares (1996): Normalization and
Subtraction: Two Approaches To Facilitate Gene Discovery.
TAG_LIB=NCI CGAP_Lu19
TAG_LIB=NCI CGAP_Lu19
TAG_LEB=NCI CGAP_Lu19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             951 CTATGGCCCTTGGCCCCAGCCCCATCCCTTT-ATCCTGCCACTGTCATATGCTAC 1009
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1010 CTTTCCTATCTCTCCCTCATCATCTTGTTGGGCATGAGGAGGTGGTGATGTCAGAAG 1069
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAATGGTTCGAGCTCAGAAGATAAAGGAGGGGGTATGCTGGTCCTCTTTTAAAAAC 1129
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                770
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     830
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          890
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        697 TCAGGACCCCCACGTCTGACTTAGTGGGCACCTGACCACTTTGTCTTCTGGTTCCCAGTN 638
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              651 TGCATAAATTCTGAGATTTGGAGCTCCAGGGTCCTCCCCCACTGGATGGTGCTACT 710
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                579
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             578 GCTGTGGAATCTTGTAAAACCATGTGGGGTAAACTGGGAATAACATGAAAAGATTTCTG 519
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        518 TGGAGGTGGGGTGGGGGGAGTGGTGGAATCATTCCTGCTTAATGGTAACTGACCAGTGTT 459
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     458 ACCCTGAGCCCCGCAGGCCAACCCATCCCCAGTTGAGCCTTATAGGGTCAGTAGCTCCC 399
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ACATGAAGTCCTCTCACTCACCACTGTGCAGGAGGGGAGGTGGTCATAGAGTCAGGGAT 950
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  398 ACATGAAGACCTGTCACCACTATGCAGGAGGAGGAGGTGGTCATAGAGTCAGGAT 339
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  278 CITICCTATCTCTTCCCTCATCATCTTGTGGGCATGAGGAGGTGCTGATGTCAGAAG 219
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           591 TCAGGACCCCCAGGTCTGACTTAGTGGCCACCTGACCACTTTGTCTTCTGGTTCCCAGTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                637 IGGATAAATTCTGAGATTT-GAGCTCAGTCCACGCCCTCCCCCCACTGGATGGTGCTACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GCTGTGGAACCTTGTAAAAACCATGTGGGGTAAACTGGGAATAACATGAAAAGATTTCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TGGGGGTGGGGTGGGGAGTGCTGGGAATCATTCCTGCTTAATGGTAACTGACAAGTGTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ACCCTGAGCCCCGCAGCCAACCCATCCCCAGTTGAGCCTTATAGGGTCAGTAGCTCTCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          338 CTATGGCCCTTGGCCCACCCCACCTCCTTTTAATCCTGCCACTGTCATATGCTAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      25.1%; Score 643.2; DB 2; Length 697; 97.7%; Pred. No. 5.6e-155;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        14; Indels
  elements were found in this cDNA sequence: 1-60,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0; Mismatches
                                                                                                                                                       /organism="Homo sapiens"
                                                                                                                                                                             /mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:3086280"
                                                                                                     Location/Qualifiers
                       >AT_rich#Low_complexity
Seq_primer: M13 Forward
POLYA=Yes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Matches 673; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     771
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   711
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1070
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          831
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          891
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Best Local
                                                                                                       FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ORIGIN
```

8 d ò 셤 ò ద ò g ò a ò Вþ ઠે a à g

ઠ g ઠે g Š 8 S

346

301 406

241

361

466 421 526 481 586 541

g ઠે a ò g ò 셤 ð g ઠે 셤 ò 셤

645

705

721 824

BX350083/c DEFINITION ACCESSION VERSION

601

```
1514 CTCTGGTTGGTTGTAGTGATCAGGAAACAGATCTCAGCAAAGCCACTGAGGAGGAGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               169 TCTGATTGTCCTCAGCCTCCACACTCCCAGAGTAAATTCAAATTGAATCGAGCTCTGCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CTCTGGTTGGTTGTAGTGATGATCAGGAAACAGATCTCAGCAAAGCCAATGAGAGGAGGAGG
                                                                                                                                                                                                                                                                                                                                                               TGTGCAGGAGAGGAGGTGGTCATAGAGTCAGGGATCTATGGCCCTTGGCCCAGCCCCAC
                                                                                                                                                                                                                                                                                                                                                                                                           rcraragaagreagaggrunraarggeeeerrgggeeeeraageeeeeeeeeeerr
                                                                                                                                                                                                                                                                                                                                                                                                                                                          1035 TTGTTGTGGGCATGAGGAGGTGGTGATGTCAG-AAGAAATGGTTCGAGCTCAGAAGATAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GGTGTGGGGCATGAGGAGGTGGTGTCAGAAAGAAATGGCTCGAGCTCAGAAGATAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1094 AAGATAAGTAGGGTATGCTGATCCTCTTTTAAAAACCCAAGATACAATCAAAATCCCAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   529 AAGATAAGTAAGGTATGCTGATCCTCTTTTAAAAACCCAAGATACAATCAAAATCCCAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TGCTGGTCTCTATTCCCATGAAAAAGTGCTCATGACATATTGAGAAGACCTACTTACAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                469 TGCTGGTCTCTATTCCCATGAAAAGTGCTCATGACATATTGAGAAGACCTACTTACAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         409 GTGGCATATATTGCAATTTATTTTAATTAAAAGATACCTATTTATATATTTTCTTTATAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAAAAGTCTGGAAGAGTTTACTTCAATTGTAGCAATGTCAGGGTGGTGGCAGTATAGGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   349 AAAAAGTCTGGAAGAGTTTACTTCAATTGTAGCAATGTCAGGGTGGTGGCAGTATAGGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     289 ATTITICITITAATICIGITAATITATCIGIATITICCIAATITITICIACAAIGAAGAIGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1394 ATTCCTTGTATAAAAATAAGAAAAATTAATTCTTGAGGTAAGCAGAGCAGACATCATC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TCTGATTGTCCTCAGCCTCCAATTCCCCAGAGTAAATTCAAATTGAATCGAGCTCTGCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        649 TTAATCCCTGCCCACTGTCAAATGCTAACCTTTCCTATTCTCTTCCCTCCAATCATCTTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       bp mRNA linear EST 02-AUG
cDNA clone PLACE1009110 5', mRNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1574 CTGTGCTGAGTTTGTGTGGCTGGAATCTCTGGGTAAGGAACTTAAAGAA 1622
                                                                                                                                                                                                                                                                                                                  ;
;
                                                                                                                                                                                                                                                                 Length 915;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CTGTGATGAGTTTGTGTGGCTGGAATCTCTGGGTAAGAACACTAAAGAA
                                                                                                                                                                                                                                                               21.5%; Score 551.4; DB 5;
87.0%; Pred. No. 3.6e-131;
ive 0; Mismatches 91;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          555
Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GI:11000216
                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AU138695
AU138695 PLACE1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 sequence.
AU138695
AU138695.1
EST.
                                                                                                                                                                                                                                                                                          l Similarity
617; Conser
                                                                                                                                                                                                                                                                                                                                                                 915
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1154
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1214
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         109
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1274
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1454
                                                                                                                                                                                                                                                                    Query Match
                                                                                                                                                                                                                                                                                            Best Loca
Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ACCESSION
VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RESULT 13
AU138695
                                                                                                                                                                                                                        ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                       õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

1 (Dasea 1 to 915)

11, W. B., Gruber, C., Jessee, J. and Polayes, D.

11, W. B., Gruber, C., Jessee, J. and Polayes, D.

12, M. B., Gruber, C., Jessee, J. and Polayes, D.

13, May 5, 2003 this sequence version replaced gi:30383465.

14. Contact: Genoscope

15. Genoscope - Centre National de Sequencage

15. Tue Gaston Cremieux, CP 5706 - 91057 EvRY cedex - FRANCE

16. Email: segref@genoscope.cns.fr. Neb: www.genoscope.cns.fr

18. strand cDNA was primed with a NotI-oligo(dT) primer. Five prime

18. end enriched, double-strand cDNA was digested with Not I and cloned

18. into the Not I and EcoR V sites of the pCMVSPORT 6 vector. Library

18. was normalized. Library was constructed by Life Technologies, a

18. division of Invitrogen. This sequence belongs to sequence cluster
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             For more information about this cluster, see http://www.genoscope.cns.fr/cdna?s=CSOBAI018ZD02_CS01644_2&c=1383.f
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            BX350083

915 bp mRNA linear EST 23-APR-2004
BX350083 Homo sapiens PLACENTA COT 25-NORMALIZED Homo sapiens CDNA
clone CSODI013YA07 3-PRIME, mRNA sequence.
                                                                                                                                                                         360
                                                                                                                                                                                                                                                                                                                                                                                                                                                            540
                                                                            300
                                                                                                    GGGTGGGGCAGGAGCCGACTCTAACACTAGAGCCCAGTGAACATCATGGAGCTCTATCTTG 405
                                                                                                                                                                                                                     465
                                                                                                                                                                                                                                                                    420
                                                                                                                                                                                                                                                                                                                525
                                                                                                                                                                                                                                                                                                                                                                 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    099
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  720
                                                                                                                                                                                                                                                                                                                                                                                                             585
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           644
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      704
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   763
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ATGCCAGCCTGTCCCCGTCATCCTGGGTGTCCAGGGTGGAAGCCAGTGCCTGTCATGTG
                                                                                                                                                                                                                                                                 TCGAGTCGGCTGCCTACCCGGGCTGGTTCCTGTGCACGGTGCCTGAAGCCGATCAGCCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TCCAGCAGTGTGACTAGGGCAAC-AGTGCCCCCAGAACTCCCTGGGCAGAGCCAGCTCGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GTGAGGGGTGAGTGGAGGAGACCCATGGCGGACAATCACTCTTTCTGCTCTCAGGACCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CAGGICTGACTIAGTGGGCACCTGACCACTITGICTTCTGGTTCCCCAGTTTGCATAAATT
                                                                                                                                                                       GTGCCAAGGAATCCAAGAGCTTCACCTTCTACCGGCGGGACATGGGGCTCACCTCCAGCT
                                                                                                                                                                                                                                                                                                                  TCGAGTCGGCTGCCTACCCGGGCTGGTTCCTGTGCACGGTGCCTGAAGCCGATCAGCCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                            TCCAGCAGTGTGACTAGGGCAACGTGCCCCCCCAGAACTCCCTGGGCAGAGCCAGGCTCGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CTGAGATTTGGAGCTCCAGGGTCCTCCCCCACTGGATGGTGCTACTGCTGTGGAAC
                                                                         GGGTGGGGCAGGCCGACTCTAACACTAGAGCCAGTGAACATCATGGAGCTCTATCTTG
                                                                                                                                                                                                  GTGCCAAGGAATCCAAGAGCTTCACCTTCTACCGGCGGGACATGGGGCTCACCTCCAGCT
                                                                                                                                                                                                                                                                                                                                                               TCAGACTCACCCAGCTTCCCGAGAATGGTGGCTGGAATGCCCCCATCACAGACTTCTACT
                                                                                                                                                                                                                                                                                                                                                                                               TCAGACTCACCCAGCTTCCCGAGAATGGTGGCTGGAATGCCCCCATCACAGACTTCTACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ca-encircacinanda de de accidada activacentra de incresentra de arabanten
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               750
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CGTTGAAAACCATGTGGGGAAACAAGGGA 853
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Location/Qualifiers
1. .915
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GI:46553561
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Homo sapiens (human)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         BX350083.2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      BX350083
```

1273

1333

290

1393

1453

EST

KEYWORDS

ORGANISM

AUTHORS TITLE JOURNAL COMMENT

REFERENCE

230

1513

110

20

1383.£

FEATURES

1034

1093

530

1153

470

1213

```
/mol Lype="mrxn" or provided by the factors of the 
                                                                                                                                                                                                                                                                                                                                                                                                         Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

1 (bases 1 to 55)

1 (bases 1 to 55)

1 (bases 1 to 55)

Nagai,M.A., da Silva,W. Jr., Zago,M.A., Bordin,S., Costa,F.F., Goldman,G.H., Carvalho,A.F., Matsukuma,A., Baia,G.S., Simpson,D.H., Brunstein,A., deoliveira,P.S., Bucher,P., Jongeneel,C.V., Soares,F., Brentani,R.R., Reis,L.F., de Souza,S.J. and Simpson,A.J.
                                                                                                                                                                                              BQ351235 100600-021-e07 HT0773 Homo Bapiens cDNA, mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Tel: +55-11-2704922
Fax: +55-11-2707001
Fax: +55-11-2707001
This sampson@ludwig.org.br
This sequence was derived from the FAPESP/LICR Human Cancer Genome Project. This entry can be seen in the following URL (http://www.ludwig.org.br/scripts/gethtml2.pl?tl=RCO&t2=RCO-HT0773-010600-021-e07&t5=2000-601&t4=1)
Seq primer: puc 18 forward
High quality sequence start: 14
High quality sequence start: 14
High quality sequence stop: 555.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1911 GTAAAGATGAAGGCAGAGATCGGAGTTTTGCAGCCACAAGCTAAGAAACACCAAGGATTG 1970
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CTGGTTTCCTTGTATGAAAGGAGAGACACAGAGACAGAGGAGAGGAGGAGGAGACTAT 1910
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          147 GTAAAGATGAAGGCAGAGATCGGAGTTTTGCAGCCACAAGGAAACACCAAGGATTG 206
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Contact: Simpson A.J.G.
Laboratory of Cancer Genetics
Ludwig Institute for Cancer Research
Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Shotgun sequencing of the human transcriptome with ORF expressed
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1792 AGATGTAGTTAGTTAAGACAAGGTCATGCTGGATGAAGGTAGACC-TAAATTCAATATGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           27 AGATATAGTGAGTTAAGACAAGGTCATGCTGGATGAAGGTAGACCGTAAATTCAATATGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               5;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                sequence tags
Proc. Natl. Acad. Sci. U.S.A. 97 (7), 3491-3496 (2000)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length 555;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                18.8%; Score 481; DB 5; Length 55 98.6%; Pred. No. 5.5e-113; Live 0; Mismatches 5; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1. .555
/organism="Homo sapiens"
                                                                                                                                                                                                                                                                                              GI:21015291
Homo sapiens (human)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Conservative
                                                                                                                                                                                                                                                                                                                                                                                            Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local Similarity
Matches 506; Conserv
                                                                                                                                                                                                                                                                                                  BQ351235.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    10737800
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                20202663
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Brazil
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1851
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       source
                                                                                                                                                                                                                            DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                            ORGANISM
                                                                                                                                                                                                                                                             ACCESSION
VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MEDLINE
PUBMED
COMMENT
                                                                                                                                     RESULT 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  JOURNAL
                                                                                                                                                                BQ351235
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ORIGIN
                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    994 CACTGTCATATGCTACCTTTCCTATCTCTCTCATCATCTTGTTGTGGGCATGAGGAG 1053
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1054 GTGGTGATGTCAGAAGAAATGGTTCGAGCTCAGAAGATAAAAGATAAGTAGGTATGCTG 1113
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1114 ATCCTCTTTTAAAAACCCAAGATACAATACAAATCCCAGATGCTGGTCTCTATTCCCATG 1173
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1174 AAAAAGTGCTCATGACATATTGAGAAGACCTACTTACAAAGTGGCATATATTGCAATTTA 1233
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           181 GGGTCAGTAGCTCTCCCACATGAAGTCCTGTCACCACCACTGTGCATGAGAGGAGGTGG 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       361 GTGGTGATGTCAGAAGAAATGGNTCGAGCTCAGAAGATAAAAAGATAAACTAGGGTATGCTG 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           695 ACTGGATGGTGCTACTGCTGTGGAACCTTGTAAAAACCATGTGGGGTAAACTGGGAATAA 754
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CATGAAAAGATTTCTGTGGGGGTGGGGGTGGGGGAGTGCTGGGAATCATTCCTGCTTAATG 814
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               61 CATGAAAAGATTTCTGTGGGGTGGGGTGGGGAATGGTGGGAATCATTCCTGCTTAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              874
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              121 GTAACTGACAAGTGTTACCCTGAGCCCCGCAGGCCAACCCATCCCCAGTTGAGCCTTACA 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GGGTCAGTAGCTCTCCACATGAAGTCCTCTCACTCACCACTGTGCAGGAGGAGGAGGTGG 934
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TCATAGAGTCAGGGATCTATGGCCCTTGGCCCAGCCCCACCCCCTTCCCTTT-ATCCTGC 993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       301 CACTGICATATGCTACCTTTCCTATCTCTTCCTTCATCATGTTGCTGCGGCCATGAGGAG 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      481 AAAAAGIGCICAIGACAIAIIGANAANACCIACIIACAAAGIGGCAIAIAIIGCAAIIIA 540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   9
                                                            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 555)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Email: genomics@hri.co.jp
HRI human cDNA project; 5'- & 3'-end one pass sequencing: Helix
Research Institute; cDNA library construction: Department of
Virology, Institute of Medical Science, University of Tokyo, and
Helix Research Institute.
                                                                                                                                                                Ota,T., Nishikawa,T., Suzuki,Y., Ishii,S., Saito,K., Kawai,Y.,
Yamamoto,J., Wakamatsu,A., Nakamura,Y., Nagai,T., Sugano,S. and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Actiggatiggtigctigctigtiggaacctrigtaaaaaccatigtiggggtaaactigggaataa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GTAACTGACAAGTGTTACCCTGAGCCCCGCAGGCCAACCCATCCCCAGTTGAGCCTTATA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       421 ATCCTCTTTTAAAAACCCAAGATACAATCAAAATCCCAGATGCTGGNCTCTATTCCCATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ;;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     20.6%; Score 527.8; DB 1; Length 555; 97.8%; Pred. No. 4.1e-125; ive 0; Mismatches 11; Indels 1
                                                                                                                                                                                                                                                      HRI human cDNA project
Unpublished (2000)
Contact: Takao sogai
Gonmics Laboratory
Helix Research Institute
1532-3 Yana, Kisarazu, Chiba 292-0812, Japan
Fax: 81-438-52-3966
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /note="Vector: pME18SFL3"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /organism="Homo sapiens"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /tissue_type="placenta"
/clone_lib="PLACE1"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /mol_type="mRNA"
/db_xref="taxon:9606"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              clone="PLACE1009110"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1234 TTTTAATTAAAGAT 1248
      Homo sapiens (human)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           543; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Best Local Similarity
                                                                                                                                                                                                                                  Isogai, T
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  815
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      755
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         935
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          875
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            source
      SOURCE
ORGANISM
                                                                                                                                                                                                                                                             TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Matches
                                                                                                                                     REFERENCE
                                                                                                                                                                AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FEATURES
                                                                                                                                                                                                                                                                                                                            COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
```

86

146

```
ઠે
                                 g
                                                               8
                                                                                              g
                                                                                                                         ર્જ
                                                                                                                                                       셤
                                                                                                                                                                                             8 6 8 6
                                                                                                                                                                                                                                                                                                                      8
                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                   8
                                                                                                                                                                                                                                             2270
                                                      468 bp DNA linear GSS 17-DEC-2003 VIRTUAL TRANSCRIPT, partial sequence,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
TGGCAACCATCAGAAGCTTGGAAGAGGCAAAGAAGAATTCTTCCCTAGAGGCTTTAGAGG 2030
                                                                                                                     AAATTTCGGCTGTTTTAAGCCACCAAGGATAATTGGTTACAGCAGCTCTAGGAAACTAAT 2150
               207 TGGCAACCATCAGAAGCTTGGAAGAGGCAAAGAAGAATTCTTCCCTAGAGGCTTTAGAGG 266
                                                                                                                                    327 AAATTTCGGCTGTTTTTAAGCCACCAAGGATAATTGGTTACAGCAGCTCTAGGAAACTAAT 386
                                                                                                                                                                                                               505
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Eukaryota, Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Butheria; Primates; Catarrhin; Hominidae; Homo.

(lark, A.G., Glanowski, S., Nielson, R., Thomas, P., Kejariwal, A., Todd, M.A., Tanenbaum, D.M., Civello, D.R., Lu, F., Murphy, B., Ferrica, S., Wang, G., Zheng, X.H., White, T.J., Shinsky, J.J., Adams, M.D. and Cargill, M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Inferring nonneutral evolution from human-chimp-mouse orthologous
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Clark. A.G., Glanowski, S., Nielson, R., Thomas, P., Kejariwal, A., Clark. A.G., Glanowski, S., Nielson, R., Lu, F., Murphy, B., Ferriera, S., Wang, G., Zheng, X.H., White, T.J., Sninsky, J.J., Adams, M.D. and Cargill, M. Direct submission

Submitted (16-NOV-2003) Celera Genomics, 45 West Gude Drive, Rockville, MD 20850, USA
This sequence was made by sequencing genomic exons and ordering them based on alignment.

Location/Qualifiers
                                                                                                                                                                                                                                                               AATGTACCAAAGTTGTCTTTGTGACCCAATAGAATATGGCAGAGTGATGATGGCATGCCACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match 18.3%; Score 468; DB 9; Length 468; Best Local Similarity 100.0%; Pred. No. 1.2e-109; Matches 468; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                          TCCAAGATTAGGTTATAAAAGACACTGCAGCTT 2303
                                                                                                                                                                                                                                                                                                                         TCCAAGATTAGGTTATCAAAGACACTGCAGCCT 538
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Science 302 (5652), 1960-1963 (2003)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1. .468
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /gene="IL1F5"
/locus_tag="HCM4832"
                                                                                                                                                                                                                                                                                                                                                                                                                                Homo sapiens IL1F5 gene, genomic survey sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AY413262.1 GI:39769224
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              sapiens (human)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   4671302
                                                                                                                                                                                                                                                                                                                                                                                                                    AY413262
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Ношо
                                                         2031
                                                                                                                     2091
                                                                                                                                                                                2151
                                                                                                                                                                                                                                             2211
                                                                                                                                                                                                                                                                                                          2271
                                                                                       267
                                                                                                                                                                                                                                                                                                                                      206
                                                                                                                                                                                                                                                                                                                                                                                   RESULT 15
AY413262
LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PUBMED
REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                               ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ORIGIN
                    g
                                                 ઠ
                                                                                 g
                                                                                                                    ઠે
                                                                                                                                            a
                                                                                                                                                                             ò
                                                                                                                                                                                                          g
                                                                                                                                                                                                                                           ઠે
                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                      ð
                                                                                                                                                                                                                                                                                                                                   8
ઠ
```

```
149
                                                             209
                                                                                                                                                                  180
                                                                                                                                                                                                              269
                                                                                                                                                                                                                                                   240
                                                                                                                                                                                                                                                                                               329
                                                                                                                                                                                                                                                                                                                                                                                389
                                                                                                                                                                                                                                                                                                                                                                                                                          360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   449
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             420
                                                                                                                                                                                                                                                                                                                       241 GAGCCAGTGAACATCATGGAGCTCTATCTTGGTGCCAAGGAATCCAAGAGCTTCACCTTC 300
                                                                                                                                                                                                                                                                                                                                                                                                        301 TACCGGGGGACATGGGGGCTCACCTCCAGCTTCGAGTCGGCTGCCTACCCGGGGTGGTTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            361 CTGTGCACGGTGCCTGAAGCCGATCAGCCTGTCAGACTCACCCAGCTTCCCGAGAATGGT
1 ATGGTCCTGAGTGGGGGGCGCTGTGCTTCCGAATGAAGGACTCGGCATTGAAGGTGCTTTAT
                                                                                                                                                                  121 GAGATCAGCGTGGTCCCCAATCGGTGGCTGATGCCAGCCTGTCCCCGGTCATCCTGGGT
                                                                                                                                                                                                                                      GAGCCAGTGAACATCATGGAGCTCTATCTTGGTGCCAAGGAATCCAAGAGCTTCACCTTC
                                                                                                                                                                                                                                                                                                                                                                                  330 TACCGGCGGGACATGGGGCTCACCTCCAGCTTCGAGTCGGCTGCCTACCCGGGCTGGTTC
                                                                                                                             GAGATCAGCGTGGTCCCCAATCGGTGGCTGGATGCCAGCCTGTCCCCCGTCATCCTGGGT
                                                                                                                                                                                                              GTCCAGGGTGGAAGCCAGTGCCTGTCATGTGGGGGTGGGGCAGGAGCCGACTCTAACACTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CTGTGCACGGTGCCTGAAGCCGATCAGCCTGTCAGACTCACCCAGCTTCCCGAGAATGGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             450 GGCTGGAATGCCCCCATCACAGACTTCTACTTCCAGCAGTGTGACTAG 497
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Search completed: March 13, 2005, 18:13:41
Job time : 8398.03 secs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      390
                                         90
                                                                                                                             150
                                                                                                                                                                                                              210
                                                                                                                                                                                                                                                                                                 270
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   421
```

Page Blank (uspto)

-

```
7
,
5
                                                                                                        March 13, 2005, 10:45:20 ; Search time 21.27 Seconds (without alignments) 10854.228 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                    8780412
                                                                                                                                                                                                         1 ttgaggaacaggcagactccacagctcccgccaggagaa 39
                version 5.1.6
- 2005 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                  Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                   4390206 seqs, 2959870667 residues
                                                                                                                                                                                                                                                                                                                                                                                               Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                - nucleic search, using sw model
                                                                                                                                                                                                                                     IDENTITY NUC
Gapop 10.0 , Gapext 1.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         geneseqn1980s:*
geneseqn1990s:*
geneseqn2000s:*
geneseqn2001as:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       geneseqn2001bs:*geneseqn2002as:*
                   GenCore
Copyright (c) 1993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            genesegn2003cs:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        genesegn2003ds:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          geneseqn2004as:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         genesegn2004bs:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 N Geneseq 16Dec04:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            geneseqn2003as:*geneseqn2003bs:*
                                                                                                                                                                                                                                                                                                                                                 Minimum DB seq length: 0
Maximum DB seq length: 200000000
                                                                                                                                                                     US-09-617-720A-2
39
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              5: .. 7:
                                                                                                                                                                                                                                        Scoring table:
                                                                                                                                                                                         Perfect score:
                                                                                OM nucleic
                                                                                                                                                                                                         Sequence:
                                                                                                                                                                                                                                                                                      Searched:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Database
                                                                                                             Run on:
```

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

	Description	Aaf27922 Human IL-	Aaf27927 Interleuk	Adn05043 Antipsori	Aaf31355 Genomic c	Abz77450 Genomic D	Aaz30052 DNA encod	Aaf27950 Interleuk	Aaz30053 DNA encod	Aaf31356 Extension	Abz77451 Extended	Abl26414 Drosophil	Acn44492 Mouse gen	Aak61778 Human imm	Aas27743 DNA encod	Aak82163 Human imm	Aak80991 Human imm	Adb94546 Novel hum	Ada03020 Human RAC	Adh72758 Human RAC
SUMMARIES	ΩI	AAF27922	AAF27927	ADN05043	AAF31355	ABZ77450	AAZ30052	AAF27950	AAZ30053	AAF31356	ABZ77451	ABL26414	ACN44492	AAK61778	AAS27743	AAK82163	AAK80991	ADB94546	ADA03020	ADB72758
	DB		S	12	4	æ	~	S	~	4	æ	4	11	4	4	4	4	10	6	10
	Query Match Length DB	9.00	54	2720	5751	5751	5752	6540	7605	7605	7605	3071	49087	689	7667	7667	7667	7667	38764	38764
de	Query Match	100.0	95.9	95.9	95.9	95.9	.95.9	95.9	95.9	95.9	95.9	58.5	57.9	57.4	57.4	57.4	57.4	57.4	57.4	57.4
	Score	39	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	22.8	22.6	22.4	22.4	22.4	22.4	22.4	22.4	22.4
	Result No.	-	7	m	4	<b>ن</b>	9	7	80	60	10	11	c 12	c 13	14	c 15	c 16	17	c 18	c 19

Adc85500 Human Rac

57.4 38764 10 ADC85500

22.4

20 υ

(first entry)

```
New PRO nucleic acid or polypeptide, useful for preparing a
pharmaceutical composition for diagnosing or treating psoriasis in a
                                                                                                                       ds; gene; antipsoriatic; gene therapy; psoriasis; diagnosis.
            ADN05043 standard; cDNA; 2720 BP.
                                                                                              Antipsoriatic cDNA sequence #737.
                                                                                                                                                                                                                                    25-SEP-2003; 2003WO-US030907.
                                                                                                                                                                                                                                                               25-SEP-2002; 2002US-0414006P.
                                                                                                                                                                                                                                                                                         (GETH ) GENENTECH INC
                                                                                                                                                                                                                                                                                                                                                          WPI; 2004-305105/28.
                                                                                                                                                                                                                                                                                                                                                                        P-PSDB; ADN05044
                                                                                                                                                                               WO2004028479-A2.
                                                                                                                                                     Homo sapiens.
                                                                   01-JUL-2004
                                                                                                                                                                                                                                                                                                                    Bodary S,
                                         ADN05043;
                                                                                                                                                                                                                                                                                                                                                                                                                                mammal.
                                                                                                                                                                                                                                                                                                                                  Wu TD;
ADN05043
ID ADNO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAF31355
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT
                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ठ
                                                                                                             ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The present invention provides the protein and coding sequences of the human and murine interleukin-IL1 (IL-IL1) proteins. The IL-IL1 gene is 2003 between the IL-Ibeta and IL-Ireceptor genes at human chromosome 2013. The sequences are useful in the diagnosis, prevention and treatment of heart disease, cancer and inflammatory diseases such as rheumatoid arthritis, systemic lupus erythematous, inflammatory bowel disorder, diabbetes, psoriamis, osteoporosis, lichen sclerosis, ulcerative colitis, severe periodontal disease and pregnancy complications. The present
                                                                                                                                                                                                                                                                                                                                             Human; IL-IL1; interleukin-1 locus; IL-1beta; IL-1receptor; psoriasis; chromosome 2q13; inflammatory disease; heart disease; Graves' disease; rheumatoid arthritis; inflammatory bowel disorder; diabetes; cancer;
severe periodontal disease and pregnancy complications. The present sequence is one of two alternative 5' ends of the human IL-IL1 coding
                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Nucleic acids encoding human and murine interleukin-11, polypeptides
                                                                                                             ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 37.4; DB 5; Length 54; Pred. No. 0.00027;
                                                                                  5; Length 39;
                                                                                                            0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 54 BP; 17 A; 14 C; 16 G; 7 T; 0 U; 0 Other;
                                                       Seguence 39 BP; 12 A; 12 C; 11 G; 4 T; 0 U; 0 Other;
                                                                                                                                        39
                                                                                                                                                        1 TTGAGGAACAGGCAGACTCCACAGCTCCCGCCAGGAGAA 39
                                                                                                                                        TTGAGGAACAGGCAGACTCCACAGCTCCCGCCAGGAGAA
                                                                                                 6.7e-05;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        for controlling inflammatory processes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       sequence is an IL-IL1 coding sequence fragment
                                                                                                                                                                                                                                                                                                                                                                                        osteoporosis; systemic lupus erythematosus; ds
                                                                               100.0%; Score 39; DB
100.0%; Pred. No. 6.7e
:ive 0; Mismatches
                                                                                                                                                                                                                                                                                                                     Interleukin-IL1 coding sequence fragment #2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (INTE-) INTERLEUKIN GENETICS INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Example; Fig 10; 150pp; English
                                                                                                                                                                                                                                       ВР
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity 97.4%;
Matches 38; Conservative (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   17-JUL-2000; 2000WO-US019508
                                                                                                                                                                                                                                       54
                                                                                                                                                                                                                                                                                           08-MAY-2001 (first entry)
                                                                                  Query Match
Best Local Similarity 100.
Matches 39; Conservative
                                                                                                                                                                                                                                       AAF27927 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Barton J;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 2001-091974/10.
                                                                                                                                                                                                                                                                                                                                                                                                                                              WO200105974-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              16-JUL-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         25-JAN-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Nicklin M,
                                                                                                                                                                                                                                                                  AAF27927;
                             sequence
                                                                                                                                                                                                          RESULT 2
                                                                                                                                                                                                                                         ន្តដូន្ត
                                                                                                                                          ઠે
                                                                                                                                                                 g
```

Wood WI;

Jackman J, Schoenfeld J, Williams PM,

Clark H,

```
ö
                               The invention relates to novel polynucleotide and polypeptides for treating psoriasis or a sequence having at least 80% identity to the above sequences. The nucleic acid is useful for preparing a composition for diagnosing or treating psoriasis in a mammal. This sequence corresponds to one of the polynucleotides of the invention.
                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                      .
0
                                                                                                                                                                       DB 12; Length 2720;
                                                                                                                                     Sequence 2720 BP; 735 A; 621 C; 671 G; 693 T; 0 U; 0 Other;
                                                                                                                                                                                                        1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   interleukin; IL-1 receptor; cancer; inflammation; ds.
                                                                                                                                                                                                                                                                 93 TGGAGGAACAGGCAGACTCCACAGCTCCCGCCAGGAGAA 121
                                                                                                                                                                                                                                      1 TTGAGGAACAGGCAGACTCCACAGCTCCCGCCAGGAGAA
                                                                                                                                                                       95.9%; Score 37.4; DB 12
97.4%; Pred. No. 0.0004;
iive 0; Mismatches 1
Claim 1; SEQ ID NO 1437; 3069pp; English.
                                                                                                                                                                                                                                                                                                                                                               BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          99US-00348942.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        07-JUL-2000; 2000WO-US018710.
                                                                                                                                                                                                                                                                                                                                                               AAF31355 standard; DNA; 5751
                                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Genomic clone B2HFLS20W.
                                                                                                                                                              Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WO200102571-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          07-JUL-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                   05-APR-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        11-JAN-2001
                                                                                                                                                                                                                                                                                                                                                                                                 AAF31355;
```

ö

Gaps

ö

1; Indels

0; Mismatches

TGGAGGAACAGGCAGACTCCACAGCTCCCGCCAGGAGAA 40

RESULT 3

셤

TTGAGGAACAGGCAGACTCCACAGCTCCCGCCAGGAGAA 39

Ford J,

```
High inhibitors are used on the method of the invention. The specification describes a method of inhibiting B-cell proliferation, activation or differentiation. The method comprises administering an inhibitor of IL-IHV1 activity to a human with elevated B-cell levels or activity, in an amount that inhibits B-cell proliferation induced by IL-IHV1. The method is useful for inhibiting or stimulating B-cell proliferation, activation or differentiation in patients having a B-cell-related disorder (e.g. lymphoma, leukemia, myeloma or infection) or an autoimmune disease (e.g. allergy, asthma or allergic rhinitis), or in screening for compounds that modulate B-cell differentiation. The IL-IHV1 polypeptide, or the inhibitor of IL-IHV1 activity, is useful in preparing a medicament for stimulating or reducing B-cell proliferation.
                       The present sequence encodes human interleukin (IL)-1Hy1 polypeptide. IL-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human; interleukin-1 receptor; IL-1; antagonist; sepsis; acute pancreatitis; endotoxic shock; cytokine induced shock; rheumatoid arthritis; chronic inflammatory arthritis; pancreatic cell damage; diabetes mellitus type 1; pancreatic cell damage; diabetes mellitus type 1; pulmonary disease; inflammatory bowel disease; inflammation; pulmonary disease; autoimmune disease; inflammatory disease; antiproliferative; myelogenous leukemia; premature labor; intrauterine infection; nutritional activity; activity; activity; activity; activity; activity; chemotactic activity;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       chemokinetic activity; hemostatic activity; thrombolytic activity;
                                                                                                                                                                                                                                                                                                                                                                                      Sequence 5751 BP; 1466 A; 1274 C; 1489 G; 1383 T; 0 U; 139 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                     8; Length 5751;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Labat I;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DNA encoding a human interleukin-1 receptor antagonist
                                                                                                                                                                                                                                                                                                                                              in preparing a medicament for reducing IgA production
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Crkvenjakov R, Dickson M, Drmanac S, L.
D, Kita D, Ford J, Pace A, Alfenito M;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        813 recacedadacacedacrecacacececedecacada 851
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 TTGAGGAACAGGCAGACTCCACAGCTCCCGCCAGGAGAA 39
                                                                                                                                                                                                                                                                                                                                                                                                                                95.9%; Score 37.4; DB 8; Local Similarity 97.4%; Pred. No. 0.00043; les 38; Conservative 0; Mismatches 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ВР
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            anti-inflammatory activity; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       98US-00055010.
98US-00079909.
98US-00092364.
98US-00127698.
99US-00229591.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               99WO-US004291.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAZ30052 standard; DNA; 5752
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 1999-611042/52
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (HYSE-) HYSEQ INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Leshkowitz D,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WO9951744-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               05-APR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                26-JAN-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                14-OCT-1999.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        20-MAY-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             19-41-NUC-61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     31-JUL-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  17-FEB-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           03-APR-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        13-JAN-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAZ30052;
                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Drmanac
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Best Loc
Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAZ30052
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RESULT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                     proteins. IL-1Hyl is useful for treating cancer, an inflammatory disease mediated by IL-1B, inflammation resulting from infection or allergic reactions, and inflammation associated with chronic bronchitis, arthritis, diabetes or endothermia
                                                                                                                                                                                                                                                       Isolated nucleic acids encoding interleukin-1 (IL-1) receptor antagonist
                                                                                                                                                                                                                                                                         proteins (referred as IL-1Hy1), useful in the treatment of cancer, e.g. breast adenocarcinoma and brain tumors, and an inflammatory disease
                                                                                                                                                                                                                                                                                                                                                                                                               present invention relates to interleukin (IL)-1 receptor antagonist
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Interleukin-1Hy1; IL-1Hy1; B-cell proliferation; B-cell activation; B-cell differentiation; B-cell-related disorder; lymphoma; leukemia; myeloma; infection; autoimmune disease; allergy; asthma; allergic rhinitis; IgA production; 88.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 5751 BP; 1466 A; 1274 C; 1489 G; 1383 T; 0 U; 139 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Inhibiting or stimulating B-cell proliferation, activation or differentiation, useful for treating B-cell-related disorders or autoimmune diseases, comprises administering an interleukin-lHyl polypeptide or its inhibitor.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                95.9%; Score 37.4; DB 4; Length 5751; 97.4%; Pred. No. 0.00043;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Genomic DNA sequence of a human Interleukin-1Hy1 (IL-1Hy1).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TGGAGGAACAGGCAGACTCCACAGGCTCCCGCCAGGAGAA 851
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1 TTGAGGAACAGGCAGACTCCACAGCTCCCGCCAGGAGAA 39
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Disclosure, Page 109-111; 115pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Ho AS, Lin H, Ford JE, Rupp F;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ВР
                                                                                                                                                                                                                                                                                                                                                                     Claim 1; Fig 9; 179pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ABZ77450 standard; cDNA; 5751
13-OCT-1999; 99US-00417455.
08-DEC-1999; 99US-00457626.
08-DEC-1999; 20005-00523552.
22-MAY-2000; 2000US-00576008.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          25-JUL-2002; 2002WO-US023845.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    25-JUL-2001; 2001US-0307754P.
29-NOV-2001; 2001US-0334668P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            28-MAY-2003 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Local Similarity 97.4 nes 38; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2003-239438/23.
                                                                                                                                                                                                          WPI; 2001-071582/08
                                                                                                                                                                                                                                                                                                                        mediated by IL-18.
                                                                                                                (HYSE-) HYSEQ INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (HYSE-) HYSEQ INC.
                                                                                                                                                             Pace A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WO2003010291-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             06-FEB-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      813
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ABZ77450;
```

Query Match

The

Matches

ઠે a ö

```
The present sequence encodes a numan interleukin-1 inceptor

antagonist. It represents the genomic sequence of AA230048-51. The
encoded polypeptide is capable of binding IL-1 receptors (IL-1R8). The
encoded polypeptides and polypeptides can be used for the prevention or
treatment of disorders involving sepais, acute pancreatitis, endotoxic
shock, cytokine induced shock, rheumatoid arthritis, chronic inflammatory
arthritis, pancreatic cell damage from diabetes mellitus type 1, graft
arthritis, pancreatic cell damage from diabetes mellitus type 1, graft
wrens host disease, inflammatory bowel disease or inflammatory disease,
an antiproliferative agent such as for acute or chronic myelogenous
cleukemia or in the prevention of premature labor secondary to
intrauterine infections. They can also exhibit activity, differentiation
activity, immune stimulating or suppressing activity, hematopoiesis
regulating activity, tissue growth activity, activin, inhibin activity,
chemotactic/chemokinetic activity, hemostatic and thrombolytic activity,
receptor/ligand activity, and anti-inflammatory activity. The products
                   New isolated interleukin-1 receptor binding polypeptides, used to treat e.g. sepsis, shock, arthritis, pancreatitis, graft-versus-host disease, inflammatory disease, autoimmune disease or proliferative disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human; IL-IL1; interleukin-1 locus; IL-lbeta; IL-lreceptor; psoriasis; chromosome 2q13; inflammatory disease; heart disease; Graves' disease; rheumatoid arthritis; inflammatory bowel disorder; diabetes; cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Nucleic acids encoding human and murine interleukin-1L1 polypeptides useful for controlling inflammatory processes.
                                                                                                                                                present sequence encodes a human interleukin-1 (IL-1) receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 5752 BP; 1467 A; 1274 C; 1489 G; 1383 T; 0 U; 139 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match

95.9%; Score 37.4; DB 2; Length 5752;
Best Local Similarity 97.4%; Pred. No. 0.00043;
Matches 38; Conservative 0; Mismatches 1; Indela n
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                can also be used for detection, diagnosis and drug screening
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             813 TGGAGGAACAGGCAGACTCCCACAGCTCCCGCCAGGAGAA 851
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 TTGAGGAACAGGCAGACTCCACAGCTCCCGCCAGGAGAA 39
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         osteoporosis; systemic lupus erythematosus; ds.
                                                                                                        Claim 1; Fig 9A-C; 123pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Interleukin-IL1 genomic sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (INTE-) INTERLEUKIN GENETICS INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Example; Fig 11; 150pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAF27950 standard; DNA; 6540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                17-JUL-2000; 2000WO-US019508
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        99US-0144298P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Nicklin M, Barton J;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 2001-091974/10.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WO200105974-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          16-JUL-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         08-MAY-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        25-JAN-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAF27950;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
```

..

ô human and murine interleukin-ILI (IL-ILI) proteins. The IL-ILI gene is located between the IL-lbeta and IL-Ireceptor genes at human chromosome 2q13. The sequences are useful in the diagnosis, prevention and treatment of heart disease, cancer and inflammatory diseases such as rheumatoid arthritis, systemic lupus erythematosus, inflammatory bowel disorder, diabetes, psoriasis, osteoporosis, lichen sclerosis, ulcerative colitis, New isolated interleukin-1 receptor binding polypeptides, used to treat e.g. sepsis, shock, arthritis, pancreatitis, graft-versus-host disease, inflammatory disease, autoimmune disease or proliferative disease. The present invention provides the protein and coding sequences of the Gaps Human; interleukin-1 receptor; IL-1; antagonist; sepsis; acute pancreatitis; endotoxic shock; cytokine induced shock; rheumatoid arthritis; chronic inflammatory arthritis; pancreatic cell damage; diabetes mellitus type 1; graft versus host disease; inflammatory bowel disease; inflammation; pulmonary disease; autoimmune disease; inflammatory disease; antiproliferative; myelogenous leukemia; premature labor; intrauterine infection; nutritional activity; severe periodontal disease and pregnancy complications. The present sequence is the IL-IL1 gene hematopoiesis regulating activity; tissue growth activity; activin activity; inhibin activity; chemotactic activity; chemokinetic activity; hemostatic activity; thrombolytic activity; anti-inflammatory activity; ss. Sequence 6540 BP; 1747 A; 1458 C; 1709 G; 1626 T; 0 U; 0 Other; ö Length 6540; Indels DNA encoding a human interleukin-1 receptor antagonist. 970 TGGAGGAACAGGCAGACTCCACAGCTCCCGCCAGGAGAA 1008 R, Dickson M, Drmanac S, Li Ford J, Pace A, Alfenito M; 39 1 TTGAGGAACAGGCAGACTCCACAGCTCCCGCCAGGAGAA Score 37.4; DB 5; Pred. No. 0.00044; 0; Mismatches 1; Disclosure; Fig 10A-C; 123pp; English BP 98US-00127698. 99US-00229591. 99US-00251370. AAZ30053 standard; DNA; 7605 99WO-US004291. 98US-00079909, 98US-00082364, Query Match 95.9%; Best Local Similarity 97.4%; Matches 38; Conservative ( 98US-00055010 98US-00099818 (first entry) Drmanac R, Crkvenjakov Leshkowitz D, Kita D, WPI; 1999-611042/52 (HYSE-) HYSEQ INC. Homo sapiens WO9951744-A2 05-APR-1999; 17-FEB-1999; 26-JAN-2000 03-APR-1998; 15-MAY-1998; 11-JUL-1998; 20-MAY-1998 .3-JAN-1999 AAZ30053; RESULT 8 AAZ30053 g 888888888888888 ò ö Gaps

Sequence 7605 BP; 2079 A; 1647 C; 1865 G; 2009 T; 0 U; 5 Other;

arthritis, diabetes or endothermia

Length 7605;

4

```
The present sequence encodes a human interleukin-1 (IL-1) receptor antagonist. It is an extension of AA33052. The encoded polypeptide is capable of binding IL-1 receptors (IL-1Rs). The polymucleotides and polypeptides can be used for the prevention or treatment of disorders involving sepais, acute pancreatitis, endotoxic shock, cytokine induced shock, rheumatoid arthritis, chronic inflammatory arthritis, pancreatic cell damage from diabetes mellitus type 1, graft versus host disease, inflammatory bowel disease, inflammation associated with pulmonary disease, other autoimmune disease or inflammatory disease, an antiproliferative agent such as for acute or chronic myelogenous leukemia antiproliferative agent such as for acute or chronic myelogenous leukemia crivity, cytokine and cell proliferation/differentiation activity, crotokine and cell proliferation/differentiation activity, commune stimulating or suppressing activity, hematopoiesis regulating activity, tissue growth activity, activin/inhibin activity, receptor/common detail and activity, receptor/common detail and activity, receptor/common detail and activity and activity, receptor/common detail and activity activity, the products can also be activity and activity.
                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Isolated nucleic acids encoding interleukin-1 (IL-1) receptor antagonist proteins (referred as IL-1Hy1), useful in the treatment of cancer, e.g. breast adenocarcinoma and brain tumors, and an inflammatory disease
                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                    Sequence 7605 BP; 2081 A; 1647 C; 1865 G; 2007 T; 0 U; 5 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                           ;
0
                                                                                                                                                                                                                                                                                                                                                                                        Length 7605;
                                                                                                                                                                                                                                                                                                                                                                                                                           1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1837 TGGAGGAACAGGCAGACTCCACAGCTCCCGCCAGGAGAA 1875
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          interleukin; IL-1 receptor; cancer; inflammation; ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                               39
                                                                                                                                                                                                                                                                                                                used for detection, diagnosis and drug screening
                                                                                                                                                                                                                                                                                                                                                                                        Score 37.4; DB 2;
Pred. No. 0.00044;
                                                                                                                                                                                                                                                                                                                                                                                                                           0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Extension of genomic clone B2HFLS20W
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Disclosure, Fig 10, 179pp, English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       99US-00348942.
99US-00417455.
99US-00457626.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAF31356 standard; DNA; 7605
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      07-JUL-2000; 2000WO-US018710
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           08-DEC-1999; 99US-00457626
10-MAR-2000; 2000US-00523552
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               22-MAY-2000; 2000US-00576008
                                                                                                                                                                                                                                                                                                                                                                                        Match 95.9%;
Local Similarity 97.4%;
es 38; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 2001-071582/08.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (HYSE-) HYSEQ INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    mediated by IL-18.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Pace A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WO200102571-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   05-APR-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       07-JUL-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            13-OCT-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    11-JAN-2001.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAF31356;
                                                                                                                                                                                                                                                                                                                                                                                        Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Ford J,
                                                                                                                                                                                                                                                                                                                                                                                                                           Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SSSSSSSSSSSSSSSSSSSSS
                                                                                                                                                                                                                                                                                                                                                                                                                                                               ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
```

The present invention relates to interleukin (IL)-1 receptor antagonist proteins. IL-1My1 is useful for treating cancer, an inflammatory disease mediated by IL-18, inflammation resulting from infection or allergic reactions, and inflammation associated with chronic bronchitis,

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The present sequence encodes human interleukin (IL)-1Hy1 polypeptide. IL-
1Hy1 inhibitors are used in the method of the invention. The
specification describes a method of inhibiting B-cell proliferation,
activation or differentiation. The method comprises administering an
inhibitor of IL-1Hy1 activity to a human with elevated B-cell levels or
activity, in an amount that inhibiting B-cell proliferation induced by IL-
1Hy1. The method is useful for inhibiting or stimulating B-cell
proliferation, activation or differentiation in patients having a B-cell-
related disorder (e.g. lymphoma, leukemia, myeloma or infection) or an
autoimmune disease (e.g. allergy, asthma or allergic rhinitis), or in
screening for compounds that modulate B-cell differentiation. The IL-1Hy1
polypeptide, or the inhibitor of IL-1Hy1 activity, is useful in preparing
a medicament for stimulating or reducing B-cell proliferation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   differentiation or activation. The IL-1HY1 polypeptide may also be used
in preparing a medicament for reducing IgA production
                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                       Interleukin-1Hy1; IL-1Hy1; B-cell proliferation; B-cell activation; B-cell differentiation; B-cell-related disorder; lymphoma; leukemia; myeloma; infection; autoimmune disease; allergy; asthma; allergic rhinitis; IgA production; ss.
                                                                                                                                                                                                                                                                                                                                      Extended genomic DNA sequence of a human Interleukin-1Hy1 (IL-1Hy1).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Inhibiting or stimulating B-cell proliferation, activation or differentiation, useful for treating B-cell-related disorders or autoimmune diseases, comprises administering an interleukin-1Hyl polypeptide or its inhibitor.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 7605 BP; 2079 A; 1647 C; 1865 G; 2009 T; 0 U; 5 Other;
                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 37.4; DB 8; Length 7605; Pred. No. 0.00044; 0; Mismatches 1; Indels 0;
                                      Indels
                                                                                                    1838 TGGAGGAACAGGCAGACTCCACAGGCTCCCGCCAGGAGAA 1876
                                                                             1 TTGAGGAACAGGCAGACTCCACAGCTCCCGCCAGGAGAA 39
Score 37.4; DB 4
Pred. No. 0.00044
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Disclosure; Page 111-113; 115pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Ľ,
                                                                                                                                                                                                                  ABZ77451 standard; cDNA; 7605
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    25-JUL-2001; 2001US-0307754P.
29-NOV-2001; 2001US-0334668P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               25-JUL-2002; 2002WO-US023845
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match 95.9%;
Best Local Similarity 97.4%;
Matches 38; Conservative
Query Match
Best Local Similarity 97.4%;
Matches 38; Conservative
                                                                                                                                                                                                                                                                                               28-MAY-2003 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Lin H, Ford JE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2003-239438/23.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      differentiation or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (HYSE-) HYSEQ INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WO2003010291-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           06-FEB-2003.
                                                                                                                                                                                                                                                         ABZ77451;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Ho AS,
                                                                                                                                                                                               AB277451
                                                                                                                                                                                                                                                       셤
                                                                             ò
```

ð 유

```
The present invention relates to novel DNA and protein sequences which are associated with carcinomas. The sequences are useful for: (i) for screening drug candidates; (ii) for screening of bioactive agent capable of binding to Carcinoma Associated Protein (CAP); (iii) for screening of evaluating the agent capable of modulating the activity of CAP; (iv) for carcinoma; (vi) for inhibiting the activity of CAP; (vi) for diagnosing carcinoma; (vii) for neutralizing the effect of CAP; (vii) for treating; (x) for diagnosing carcinoma or a propensity to carcinoma; and (xi) for determining Carcinoma Associated (CA) gene copy number. In addition, the CA genes are useful as DNA vaccines and the CAP are useful as markers of carcinoma including lymphoma. The present sequence is one such CA coding sequence. Note: This patent is an equivalent to basic patent
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Recombinant nucleic acid useful for diagnosis and treatment of carcinoma comprises a nucleotide sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 49087 BP; 13649 A; 10829 C; 11010 G; 13318 T; 0 U; 281 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match 57.9%; Score 22.6; DB 11; Length 49087; Best Local Similarity 75.7%; Pred. No. 1.78+02; Matches 28; Conservative 0; Mismatches 9; Indels 0;
                              Cytostatic; carcinoma; lymphoma; cancer; murine; gene; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 TTGAGGAACAGGCAGACTCCACAGCTCCCGCCAGGAG 37
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 1; SEQ ID NO 967; Opp; English.
                                                                                                                                                                                                                                                               28-FEB-2003; 2003WO-US006235.
                                                                                                                                                                                                                                                                                                                         01-MAR-2002; 2002US-00087192.
                                                                                                                                                                                                                                                                                                                                                                                   SAGR-) SAGRES DISCOVERY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 2003-328604/31.
                                                                                                                                               WO2003073826-A2.
                                                                                     Mus musculus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            06-NOV-2001
                                                                                                                                                                                                         12-SEP-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                             Morris DW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAK61778;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT 13
AAK61778/c
g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The invention relates to an isolated nucleic acid detection reagent capable of detecting 1000 or more genes from Drosophila. The invention is useful in developmental biology and in elucidating cell signalling and cell-cell interactions in higher eukaryotes for the development of insecticides, therapeutics and pharmaceutical drugs. The invention discloses genomic DNA sequences (ABL16176-ABL30511), expressed DNA sequences (ABL16176-ABL30511), expressed DNA ABB72072). The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New isolated nucleic acid detection reagent for detecting 1000 or more genes from Drosophila and for elucidating cell signaling and cell-cell
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Drosophila; developmental biology; cell signalling; insecticide;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                  Drosophila melanogaster genomic polynucleotide SEQ ID NO 30715.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length 3071;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 3071 BP; 827 A; 691 C; 658 G; 895 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 1; SEQ ID NO 30715; 21pp + Sequence Listing; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Indels
                                                                                  1838 regaegaacaegecaeacrecaeaecrececeaegaeaa 1876
                              TTGAGGAACAGGCAGACTCCACAGCTCCCGCCAGGAGAA 39
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 22.8; DB 4;
Pred. No. 1.1e+02;
0; Mismatches 7;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              337 Aggaacageccacrecarregreceaacregae 370
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       4 AGGAACAGGCAGACTCCACAGCTCCCGCCAGGAG 37
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Myers EW
                                                                                                                                                                                                                                          ABL26414 standard; DNA; 3071 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Li PWD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  23-MAR-2000; 2000US-0191637P
11-JUL-2000; 2000US-00614150
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match 58.5%;
Best Local Similarity 79.4%;
Matches 27; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              23-MAR-2001; 2001WO-US009231
                                                                                                                                                                                                                                                                                                                                                           (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       pharmaceutical; gene; ds
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Drosophila melanogaster.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Adams M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 2001-656860/75.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (PEKE ) PE CORP NY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WO200171042-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               interactions.
                                                                                                                                                                                                                                                                                                                                                           26-MAR-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     27-SEP-2001.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Venter JC,
                                                                                                                                                                                                                                                                                                 ABL26414;
                                 Н
                                                                                                                                                                                                     ABL 26414

110 ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 110

ABL 11
```

```
Human; immune; haematopoietic; immune/haematopoietic antigen; cancer; cytostatic; gene therapy; vaccine; metastasis; ss.
                                                                                                                                            Human immune/haematopoietic antigen encoding cDNA SEQ ID NO:6838.
41121 Trgaggaacagacagacacgaaacrrrccrcraggag 41085
                                                                AAK61778 standard; cDNA; 689
                                                                                                                                                                                                                                                                                        17-JAN-2001; 2001WO-US001354.
                                                                                                                                                                                                                                                                                                                  31-JAN-2000; 2000US-0179065P.
04-FEB-2000; 2000US-0180628P.
                                                                                                                    (first entry)
                                                                                                                                                                                                                                       WO200157182-A2
                                                                                                                                                                                                                Homo sapiens,
                                                                                                                                                                                                                                                                 09-AUG-2001.
```

ACN44492 standard; DNA; 49087 BP

RESULT 12 ACN44492/c

ð 셤 Mouse genomic sequence mCG20206.

18-NOV-2004

ACN44492

BXXXXXB

ó

Gaps

```
2000US-0184644P.
2000US-018350P.
2000US-0198123P.
2000US-0198123P.
2000US-02051515P.
2000US-0214886P.
2000US-021484P.
2000US-022514P.
2000US-023549P.
2000US-023144P.
24 FEB - 2000 | 10 - WAR - 2000 | 11 - WAR - 2000 | 11 - WAR - 2000 | 11 - WAR - 2000 | 12 - WAR - 2000 | 13 - WAR - 2000 | 14 - WAR - 2000 | 16 - SEP - 200
```

2000US - 0237039P.
2000US - 0237039P.
2000US - 0239937P.
2000US - 024121P.
2000US - 024178P.
2000US - 024178P.
2000US - 024178P.
2000US - 024180P.
2000US - 024180P.
2000US - 024180P.
2000US - 024180P.
2000US - 0246477P.
2000US - 024621P.
2000US - 024921P.
2000US - 02599P.
2000US - 02599P.
2000US - 02599P.
2000US - 02599P.
2000US - 025198P.
2000US - 025198P.
2000US - 025198P.
2000US - 025198P.
2000US - 025198P. 02-OCT-2000; 13-OCT-2000; 13-OCT-2000; 20-OCT-2000; 20 

S Ruben (HUMA-) HUMAN GENOME SCI Barash SC, Rosen CA,

WPI; 2001-483426/52 P-PSDB; AAM88997.

Nucleic acids encoding human immune/hematopoietic antigen polypeptides, useful for preventing, diagnosing and/or treating cancers and metastasis.

Claim 1; SEQ ID NO 6838; 3071pp + Sequence Listing; English

14-AUG-2000; 14-AUG-2000; 14-AUG-2000; 14-AUG-2000;

```
AAK54951 to AAK64702 encode the human immune/haematopoietic antigen (I)

amino acid sequences given in AAM82170 to AAM91921. (I) have cytostatic
activity, and can be used in gene therapy and vaccine production. (I)
proteins and polynucleotides may be used in the prevention, diagnosis and
treatment of diseases associated with inappropriate (I) expression. For
example, they may be used to treat disorders associated with decreased
expression by rectifying mutations or deletions in a patient's genome
that affect the activity of (I) by expressing inactive proteins or to
supplement the patients own production of (I). Additionally, (I)
co supplement the patients own production of (I). Additionally, (I)
co polynucleotides may be used to produce the secreted (I), by inserting the
nucleic acids into a host cell and culturing the cell to express the
protein. (I) proteins and polynucleotides may be used to prevent,
diagnose and treat immune/haematopoietic-derived cells. AAK64703
concers and cancer metastases of haematopoietic antigen genomic
to AAK87694 represent human immune/haematopoietic antigen genomic
sequences from the present invention. AAK54912 to AAK64950 and AAM82169
represent sequences used in the exemplification of the present invention
×666666666666666666688&
```

; 57.4%; Score 22.4; DB 4; Length 689; 81.2%; Pred. No. 1.3e+02; tive 0; Mismatches 6; Indels Seguence 689 BP; 138 A; 193 C; 207 G; 143 T; 0 U; 8 Other; 486 TTTGGGGACATGCAGAATCCACAGCTCTCGCC 455 1 TIGAGGAACAGGCAGACTCCACAGCTCCCGCC 32 26; Conservative Local Similarity Query Match Best Loca Matches ઠે 임

AAS27743 standard; DNA; 7667 BP RESULT 14 AAS27743

AAS27743; 

07-NOV-2001 (first entry)

DNA encoding novel signal transduction pathway protein, Seq ID 1403.

Neuroprotective; cytostatic; dermatological; immunosuppressive; tumour; antiinflammatory; anti-HIV; antibacterial; antiinflammatory; cancer; immune system disorder; rheumatoid arthritis; inflammatory condition; organ transplant rejection; infection; hepatitis; inflammatory condition; sickle cell anaemia; hyperproliferative disorder; Gaucher's disease; neurodegenerative disorder; Alzheimer's disease; Parkinson's disease; chromosomal abnormality; Down syndrome; ischaemia; renal disorder; cardiovascular; respiratory; wound healing; endocrine; Addison's disease; reproductive system; gastrointestinal; liver disorder; AlDS; ds; acquired immune deficiency syndrome.

Homo sapiens

WO200154733-A1.

32-AUG-2001

17-JAN-2001; 2001WO-US001312

31-JAN-2000; 2000US-0179065P.
04-FEB-2000; 2000US-0180628P.
24-FEB-2000; 2000US-0184664P.
02-MAR-2000; 2000US-018930P.
11-MAR-2000; 2000US-0189374P.
17-MAR-2000; 2000US-0199173P.
19-MAY-2000; 2000US-0199173P.
19-MAY-2000; 2000US-020515P.
28-JUN-2000; 2000US-0214866P.

07-JUL-2000; 2000US-0216647P 07-JUL-2000; 2000US-0216880P 11-JUL-2000; 2000US-0217487P

2000US-0241826P

2000US-0225213P. 2000US-0225214P. 2000US-0225266P. 2000US-0227009P. 2000US-0228924P. 2000US-0231244P. 2000US-0231413P. 2000US-0234223P. 2000US-0234274P. 2000US-0234997P 000US-0235836P 1000US-0236368P 1000US-0236370P 000US-0237037P 000US-0237039P 2000US-0225267P 2000US-0227182P 000US-0229343P 000US-0229513P 2000US-0231242P 000US-0231414P 2000US-0231968P 2000US-0232398P 2000US-0232399P 000US-0232400P 2000US-0233064P 000US-0234998P 0000US-0235834P 000US-0236367P 000US-0236802P 06-SEP-2000; 08-SEP-2000; 08-SEP-2000; 22-AUG-2000; 01-SEP-2000; 01-SEP-2000; 01-SEP-2000; 01-SEP-2000; 08-SEP-2000; 12-SEP-2000; 14-AUG-2000; 18-AUG-2000; 05-SEP-2000; 06-SEP-2000; 14-SEP-2 

```
The invention relates to novel isolated polypeptides (I), and polymucleotides (II). (I) and the antibody to (I) are useful for diagnosing, preventing and treating diseases including immune system disorders (e.g. congenital and acquired immunodeficiencies, autoimmune disorders (e.g. congenital and acquired immunodeficiencies, autoimmune disorders (e.g. rheumatoid arthritis), inflammatory conditions, organ transplant rejections and graft versus host disease, infectious diseases (e.g. hepatitis C), bleeding disorders, haemoglobin abnormalities and other blood-related disorders (sickle cell anaemia), myeloproliferative disorders (e.g. Gaucher's disease and cancer), neurodegenerative disorders (e.g. Alzheimer's disease, Parkinson's disease), chromosomal abnormalities
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Novel polypeptides useful for diagnosing, treating, preventing and/or prognosing disorders related to the proteins, including cancers, immune disorders and neuronal disorders.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Claim 1; SEQ ID NO 1403; 880pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Barash SC, Ruben SM;
                                               2000US-0246475P

2000US-0246477P

2000US-0246478P

2000US-0246521P

2000US-0246524P

2000US-0246524P

2000US-0246527P

2000US-0246528P

2000US-0246528P

2000US-0246528P

2000US-0246528P

2000US-0246528P

2000US-02466538P

2000US-0246610P

2000US-0246611P

2000US-0246611P

2000US-0246611P

2000US-0246611P

2000US-0246611P

2000US-0246611P

2000US-0246611P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2000US-0249213P.
2000US-0249214P.
2000US-0249215P.
2000US-0249216P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2000US-0249217P.
2000US-0249218P.
2000US-0249244P.
2000US-0249245P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2000US-0249300P.
2000US-0250160P.
2000US-0250391P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2000US-0249264P.
2000US-0249265P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             000US-0249210P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2000US-0249211P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2000US-0249212P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2000US-0249299P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2000US-0251988P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2000US-0251856P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2000US-0251868P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              08-DEC-2000; 2000US-0251989P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       05-JAN-2001; 2001US-0259678P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (HUMA-) HUMAN GENOME SCI INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 2001-465460/50
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       17-NOV-2000;
01-NOV-2000;
08-NOV-2000;
                                                                                                                                                                                                                                                                                                                                 08-NOV-2000; 208-NOV-2000; 208
                                                                                                                                                                                                                                                                               08-NOV-2000;
08-NOV-2000;
                                                                                                                                                                                                                                                                                                                                                                                                       08-NOV-2000;
17-NOV-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                         17-NOV-2000;
17-NOV-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          17-NOV-2000;
17-NOV-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              17-NOV-2000;
01-DEC-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           17-NOV-2000;
17-NOV-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   17-NOV-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               01-DEC-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               L7-NOV-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Rosen CA,
```

```
(Down syndrome), ischaemic injury (e.g. stroke), renal disorders (e.g. glomerulonephritis), cardiovascular disorders (e.g. arrhythmia), respiratory disorders, dermatological disorders, in wound healing, epithelial cell proliferation, endocrine disorders (e.g. Addison's disease), reproductive system disorders, gastrointestinal disorders (inflammatory disorders), liver disorders (cirthosis), as stimulators of B-cell responsiveness to pathogens, activators of T-cells, to induce higher affinity antibodies, and as a means to induce tumour proliferation in pathologies e.g. acquired immune deficiency syndrome (AIDS). AAS25976-AAS27850 represent novel signal transduction pathway protein coding sequences and PCR primers of the invention
                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human immune/haematopoietic antigen genomic sequence SEQ ID NO:36975.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human, immune; haematopoietic; immune/haematopoietic antigen; cancer;
cytostatic; gene therapy; vaccine; metastasis; ds.
                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                          Sequence 7667 BP; 1717 A; 2370 C; 2150 G; 1430 T; 0 U; 0 Other;
                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                  Match 57.4%; Score 22.4; DB 4; Length 7667; Local Similarity 81.2%; Pred. No. 1.7e+02; les 26; Conservative 0; Mismatches 6; Indels 0;
                                                                                                                                                                                                                                                                             809 TTTGGGGACATGCAGAATCCACAGCTCTCGCC 840
                                                                                                                                                                                                                                                             1 TTGAGGAACAGGCAGACTCCACAGCTCCCGCC 32
                                                                                                                                                                                                                                                                                                                                                               ВР
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2000US-0189874F
2000US-0190076F
2000US-0205515P
2000US-0205467F
2000US-0214886P
2000US-0214886P
2000US-021488F
2000US-021488F
2000US-021488F
2000US-021488F
2000US-021488F
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2000US-0179065P.
2000US-0180628P.
2000US-0184664P.
2000US-0186350P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2000US-0225447P.
2000US-0225757P.
2000US-0225758P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2000US-0220964P.
2000US-0224518P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               000US-0224519P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2000US-0225267P.
2000US-0225268P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            000US-0225213P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           000US-0225214P.
                                                                                                                                                                                                                                                                                                                                                               AAK82163 standard; DNA; 7667
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            17-JAN-2001; 2001WO-US001354
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2000US-0225266P
                                                                                                                                                                                                                                                                                                                                                                                                                       (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WO200157182-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  30-JUN-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                14-AUG-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                      07-NOV-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                09-AUG-2001
                                                                                                                                                                                                                                                                                                                                                                                           AAK82163;
                                                                                                                                                                                                        Query Match
                                                                                                                                                                                                                                  Matches
                                                                                                                                                                                                                                                                                                                                    RESULT 15
                                                                                                                                                                                                                                                                                                                                                   AAK82163/
     8$33333333333333
                                                                                                                                                                                                                                                                                                                                                                  g
```

14-AUG-2000;

```
14-AUG-2000; 2000US-0225759P.
22-AUG-2000; 2000US-0226681P.
22-AUG-2000; 2000US-0226681P.
22-AUG-2000; 2000US-0226681P.
22-AUG-2000; 2000US-0227182P.
30-AUG-2000; 2000US-0227182P.
31-AUG-2000; 2000US-0227009P.
31-AUG-2000; 2000US-022934P.
01-SEP-2000; 2000US-022934P.
01-SEP-2000; 2000US-022934P.
01-SEP-2000; 2000US-022934P.
05-SEP-2000; 2000US-022934P.
06-SEP-2000; 2000US-022934P.
06-SEP-2000; 2000US-022934P.
06-SEP-2000; 2000US-0229314P.
08-SEP-2000; 2000US-0229314P.
08-SEP-2000; 2000US-023144P.
08-SEP-2000; 2000US-023144P.
08-SEP-2000; 2000US-023144P.
08-SEP-2000; 2000US-023199P.
14-SEP-2000; 2000US-023299P.
14-SEP-2000; 2000US-023299P.
14-SEP-2000; 2000US-023299P.
14-SEP-2000; 2000US-0232396P.
14-SEP-2000; 2000US-0232396P.
14-SEP-2000; 2000US-0232396P.
14-SEP-2000; 2000US-0233396P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                21-SEP-2000; 2000US-02342319.
25-SEP-2000; 2000US-02349319.
25-SEP-2000; 2000US-02349319.
25-SEP-2000; 2000US-02349319.
27-SEP-2000; 2000US-02349319.
27-SEP-2000; 2000US-0235834P.
27-SEP-2000; 2000US-0235834P.
27-SEP-2000; 2000US-0235834P.
29-SEP-2000; 2000US-0235834P.
29-SEP-2000; 2000US-0236369.
29-SEP-2000; 2000US-023637P.
29-SEP-2000; 2000US-023637P.
29-SEP-2000; 2000US-0236369.
29-SEP-2000; 2000US-023637P.
29-SEP-2000; 2000US-023637P.
29-SEP-2000; 2000US-023637P.
29-SEP-2000; 2000US-023637P.
20-CCT-2000; 2000US-023637P.
20-CCT-2000; 2000US-0239933P.
20-CCT-2000; 2000US-0239933P.
20-CCT-2000; 2000US-024103P.
20-CCT-2000; 2000US-024103P.
20-CCT-2000; 2000US-024103P.
20-CCT-2000; 2000US-024103P.
20-CCT-2000; 2000US-024103P.
20-CCT-2000; 2000US-0241103P.
20-CCT-2000; 2000US-0241103P.
20-CCT-2000; 2000US-024110P.
20-CCT-2000; 2000US-024617P.
20-CCT-2000; 2000US-024617P.
20-CCT-2000; 2000US-024617P.
20-CCT-2000; 2000US-024652P.
20-CCT-2000; 2000US-024662P.
20-
```

```
17-NOV-2000; 2000US-0249209F.
17-NOV-2000; 2000US-0249210P.
17-NOV-2000; 2000US-0249211P.
17-NOV-2000; 2000US-0249211P.
17-NOV-2000; 2000US-0249214P.
17-NOV-2000; 2000US-0249214F.
17-NOV-2000; 2000US-0249216F.
17-NOV-2000; 2000US-0249216F.
17-NOV-2000; 2000US-0249216F.
17-NOV-2000; 2000US-024926F.
17-NOV-2000; 2000US-024929F.
17-NOV-2000; 2000US-024929P.
                                                                                                                                                                                                                                                   2000US-0251479P.
2000US-0251856P.
2000US-0251868P.
                                                                                                                                                                                                                                           2000US-0256719P.
                                                                                                                                                                                                                                                                                                                                        (HUMA-) HUMAN GENOME SCI INC
                                                                                                                                                                                                                                                                                                                                                            Barash SC,
                                                                                                                                                                                                                                                                                                                                                                             WPI; 2001-483426/52.
                                                                                                                                                                                                                                                                                                                                                           Rosen CA,
```

Nucleic acids encoding human immune/hematopoietic antigen polypeptides, useful for preventing, diagnosing and/or treating cancers and metastasis.

Disclosure, SEQ ID NO 36975; 3071pp + Sequence Listing, English.

AMX54951 to AAX64702 encode the human immune/haematopoietic antigen (I) amino acid sequences given in AAM8110 to AAM91921. (I) have cytostatic activity, and can be used in gene therapy and vaccine production. (I) proteins and polynucleotides may be used in the prevention, diagnosis and treatment of diseases associated with inappropriate (I) expression. For example, they may be used to treat disorders associated with decreased expression by rectifying mutations or deletions in a patient's genome cappression by rectifying mutations or deletions in a patient's genome cupplement the patients own production of (I). Additionally, (I) polynucleotides may be used to produce the secreted (I), by inserting the purchain and polynucleotides may be used to provent, diagnose and treat immune/haematopoietic-related diseases, especially cancers and cancer metastases of haematopoietic-derived cells. AAK64703 to AAX67694 represent human immune/haematopoietic antigen genomic sequences from the present invention. AAX54912 to AAX54950 and AAM82169 represent human immune/haematopoietic antigen genomic propresent sequences from the exemplification of the present invention

Sequence 7667 BP; 1430 A; 2150 C; 2370 G; 1717 T; 0 U; 0 Other;

Query Match

57.4%; Score 22.4; DB 4; Length 7667; 81.2%; Pred. No. 1.7e+02; ive 0; Mismatches 6; Indels 0; 1 TTGAGGAACAGGCAGACTCCACAGCTCCCGCC 32 Best Local Similarity 81.2 Matches 26; Conservative

ò g

ö

Gaps

ö

6859 TTTGGGGACATGCAGAATCCACAGCTCTCGCC 6828

Search completed: March 13, 2005, 12:34:17 Job time: 27.9367 sec8

This Page Blank (uspto)